

Figure 1

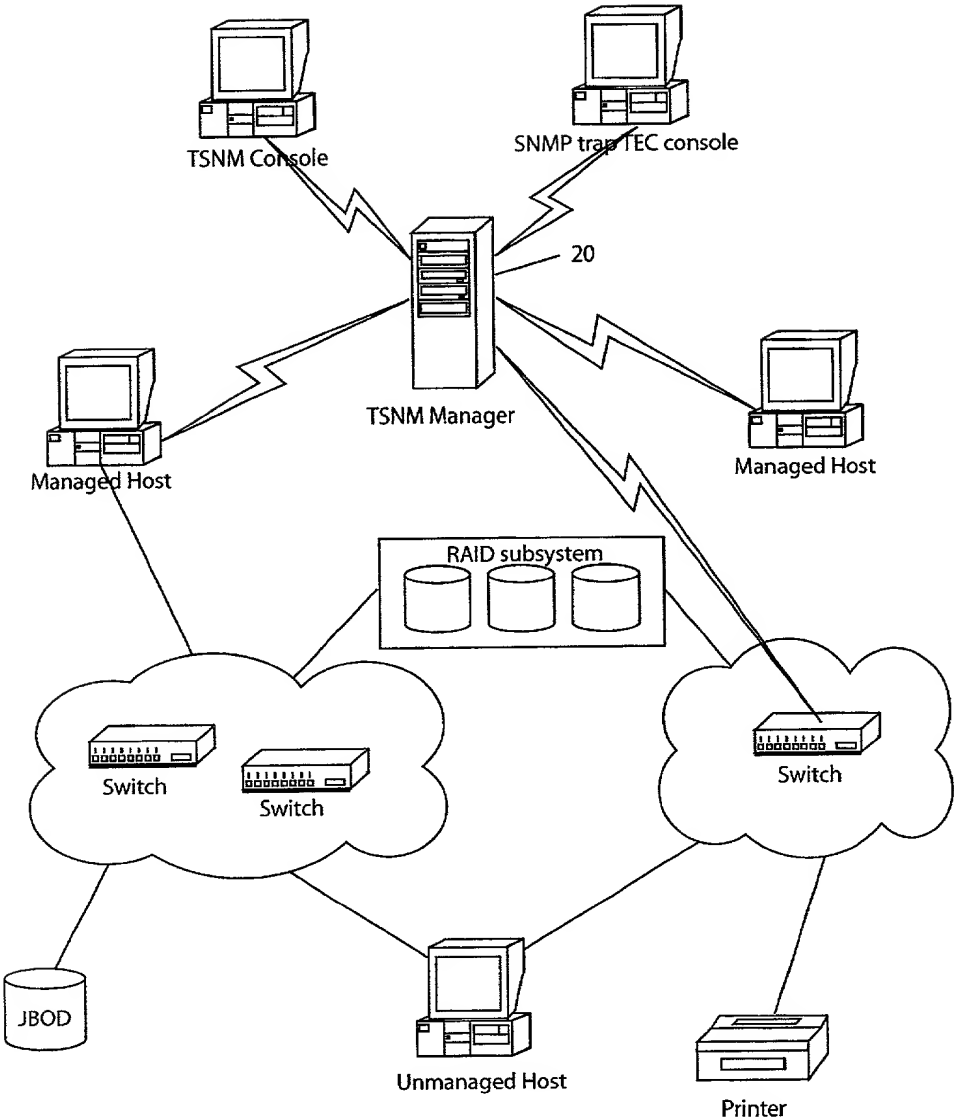


Figure 2

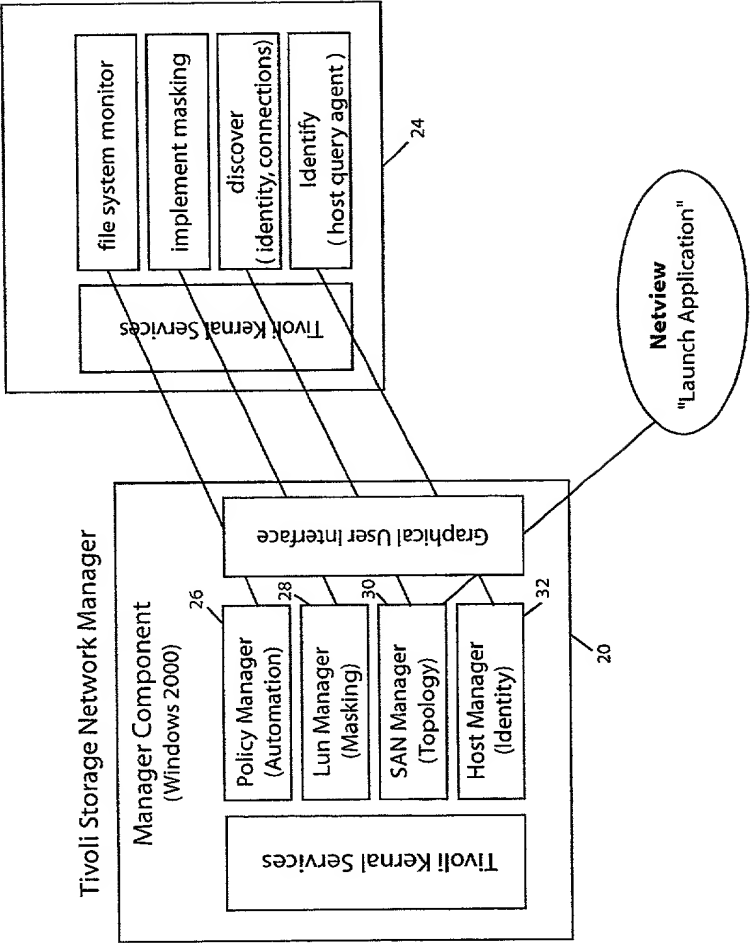


Figure 3

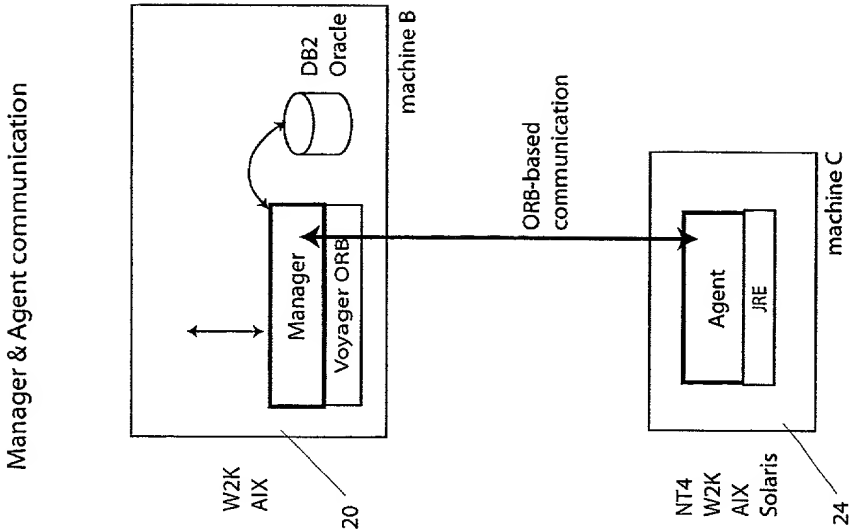


Figure 4

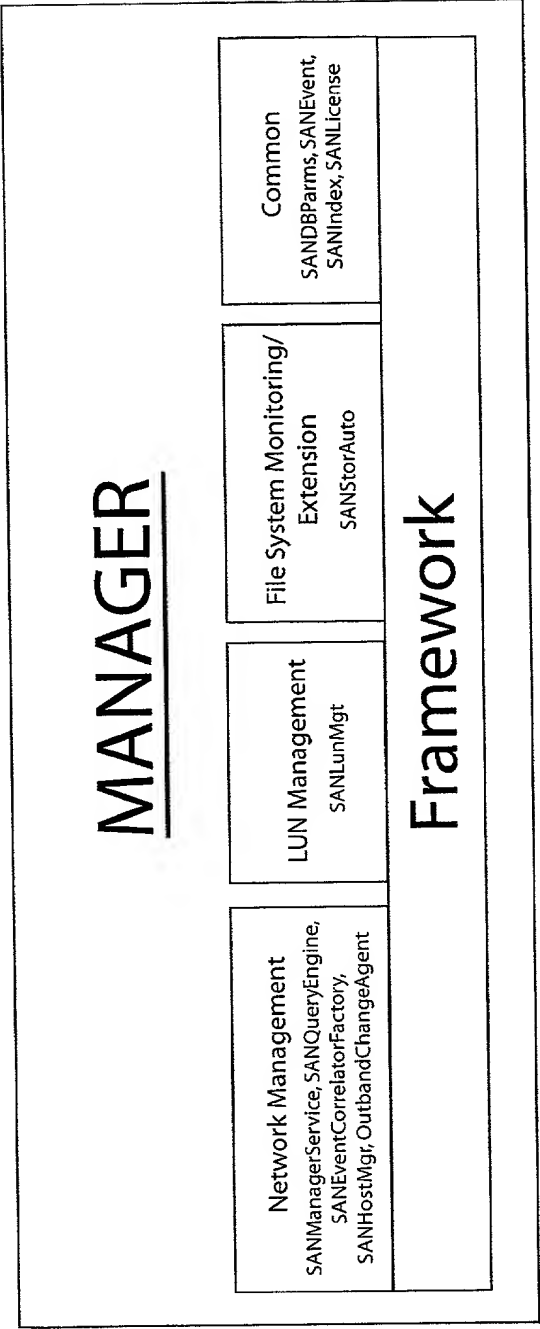
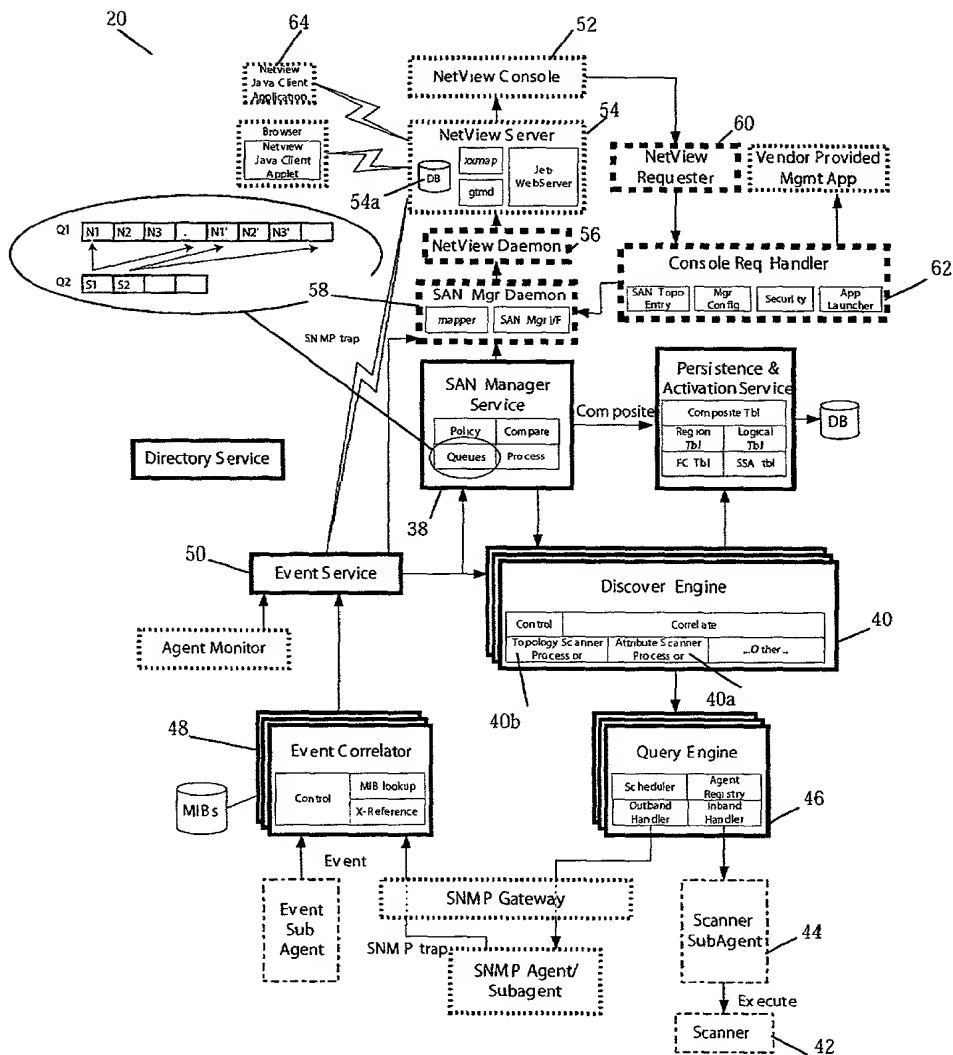


Figure 5



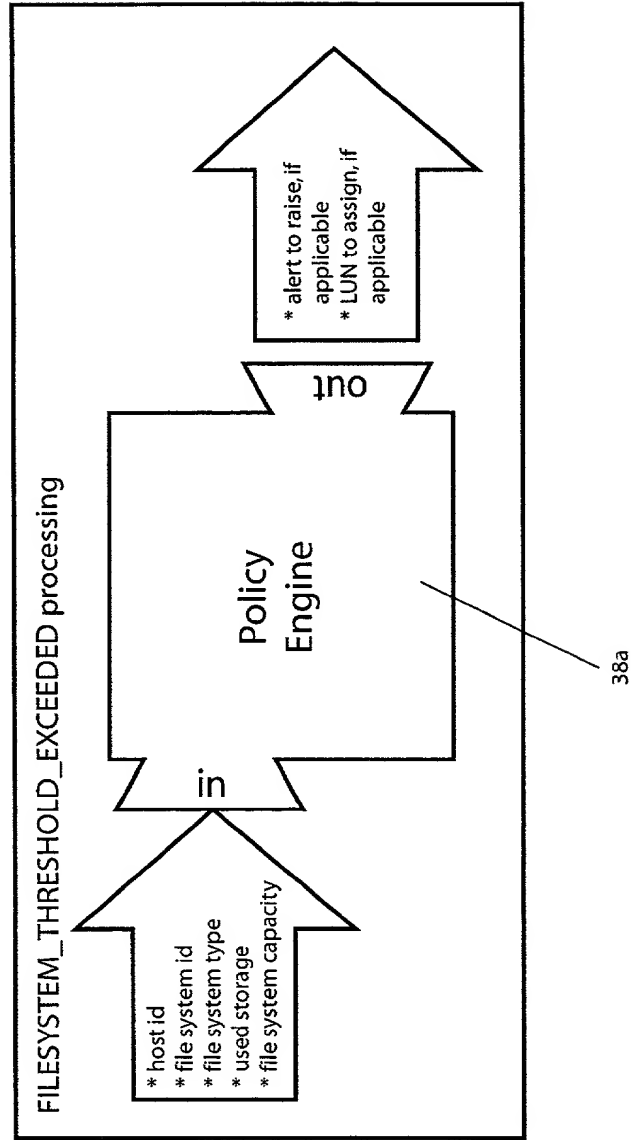


Figure 7A

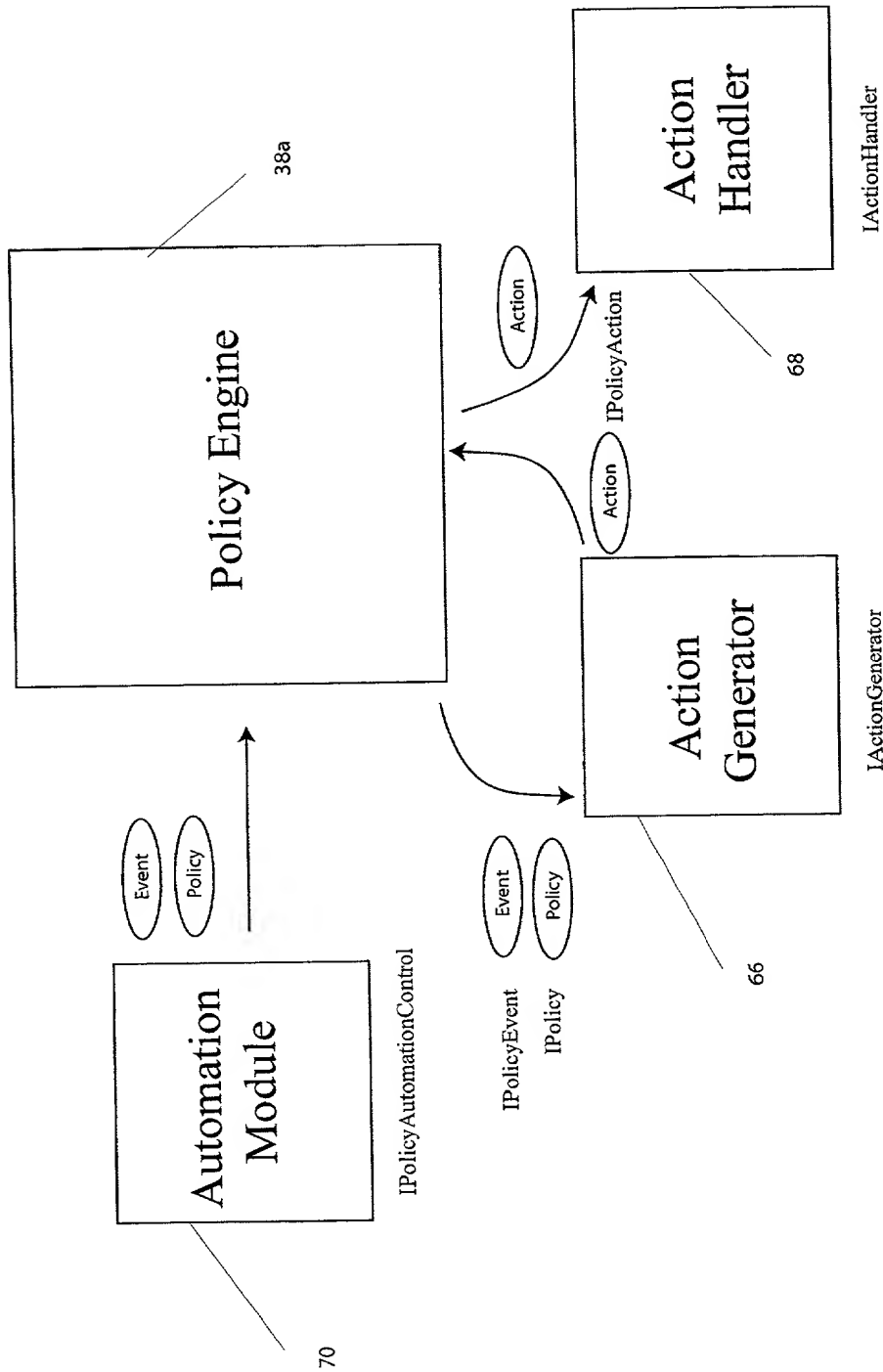


Figure 7B

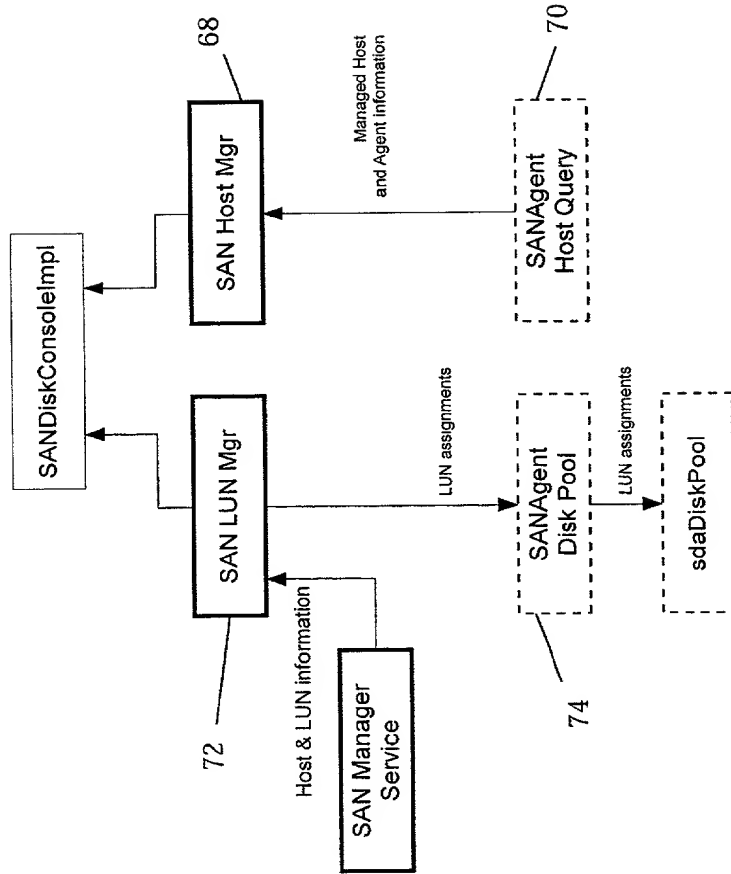


Figure 8

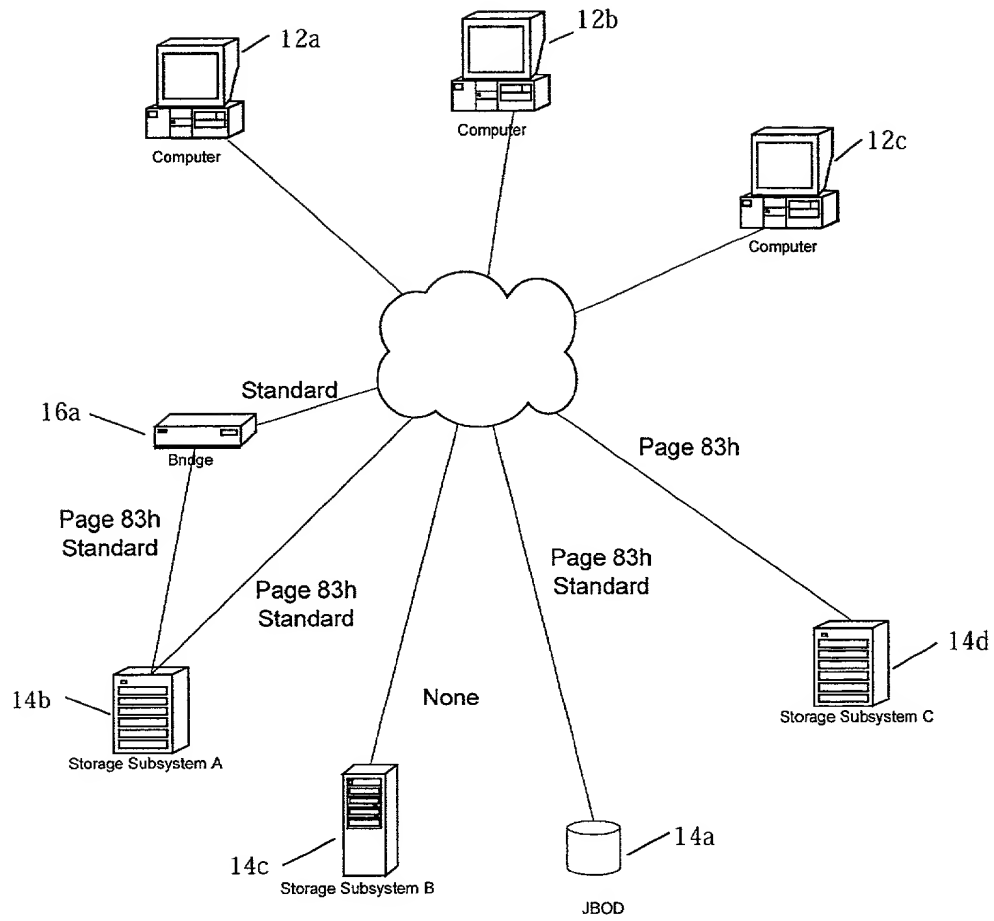
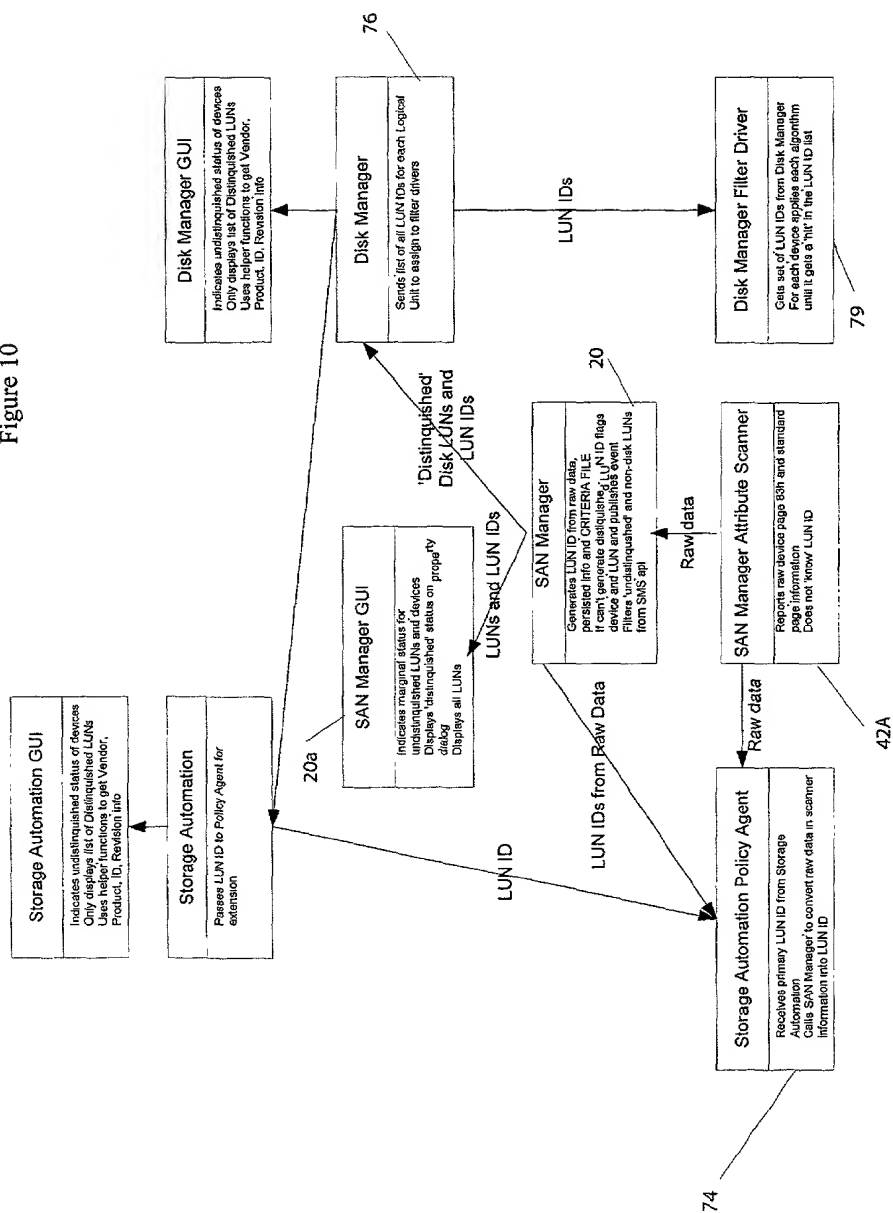


Figure 9

Figure 10



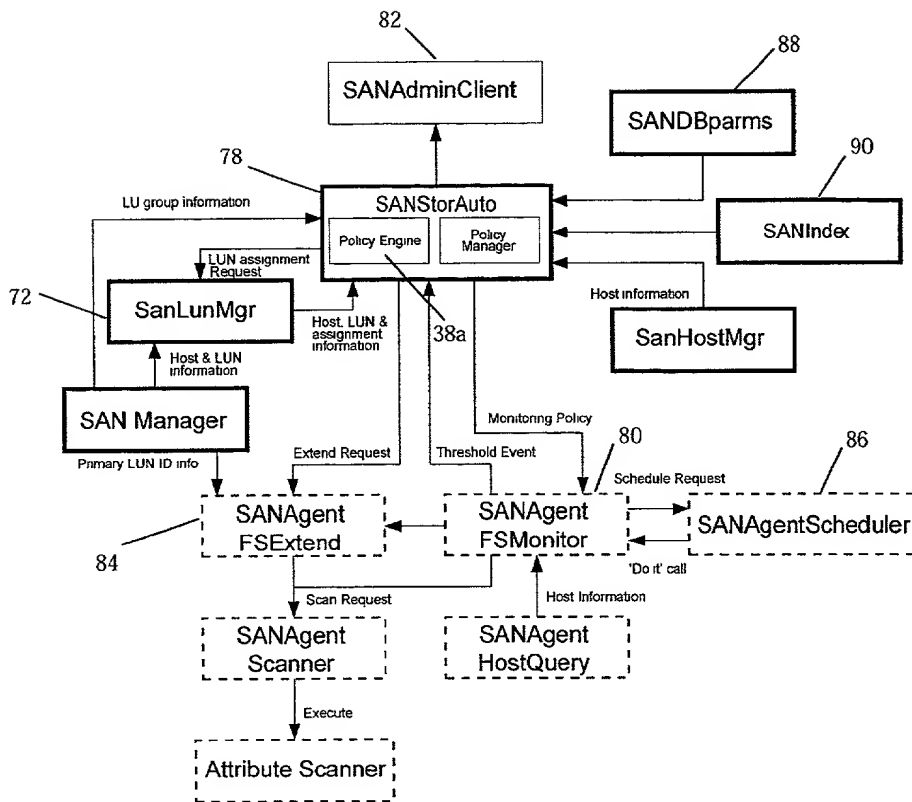


Figure 11

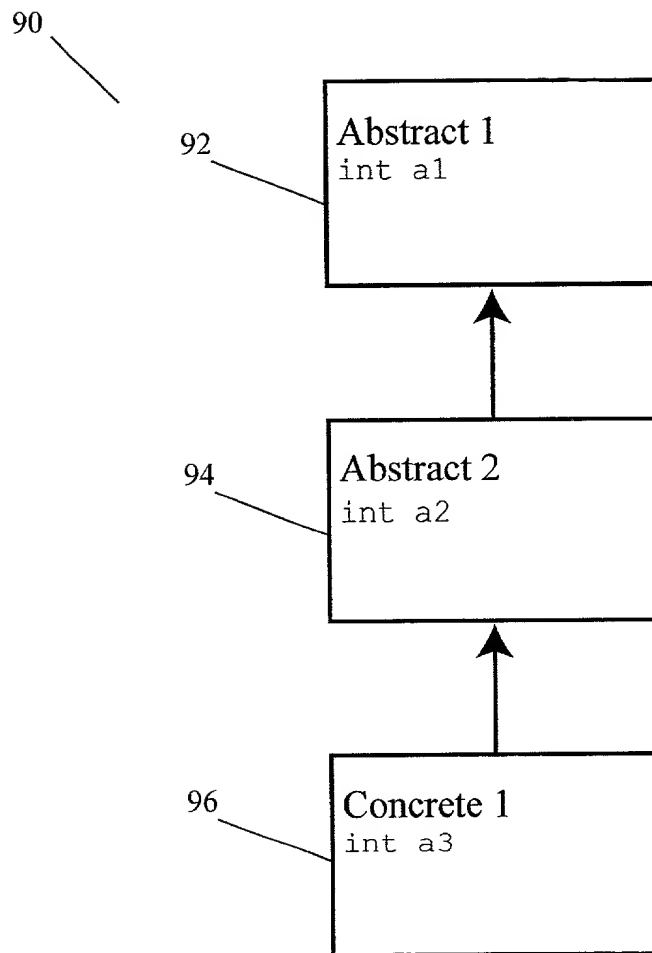


Figure 12

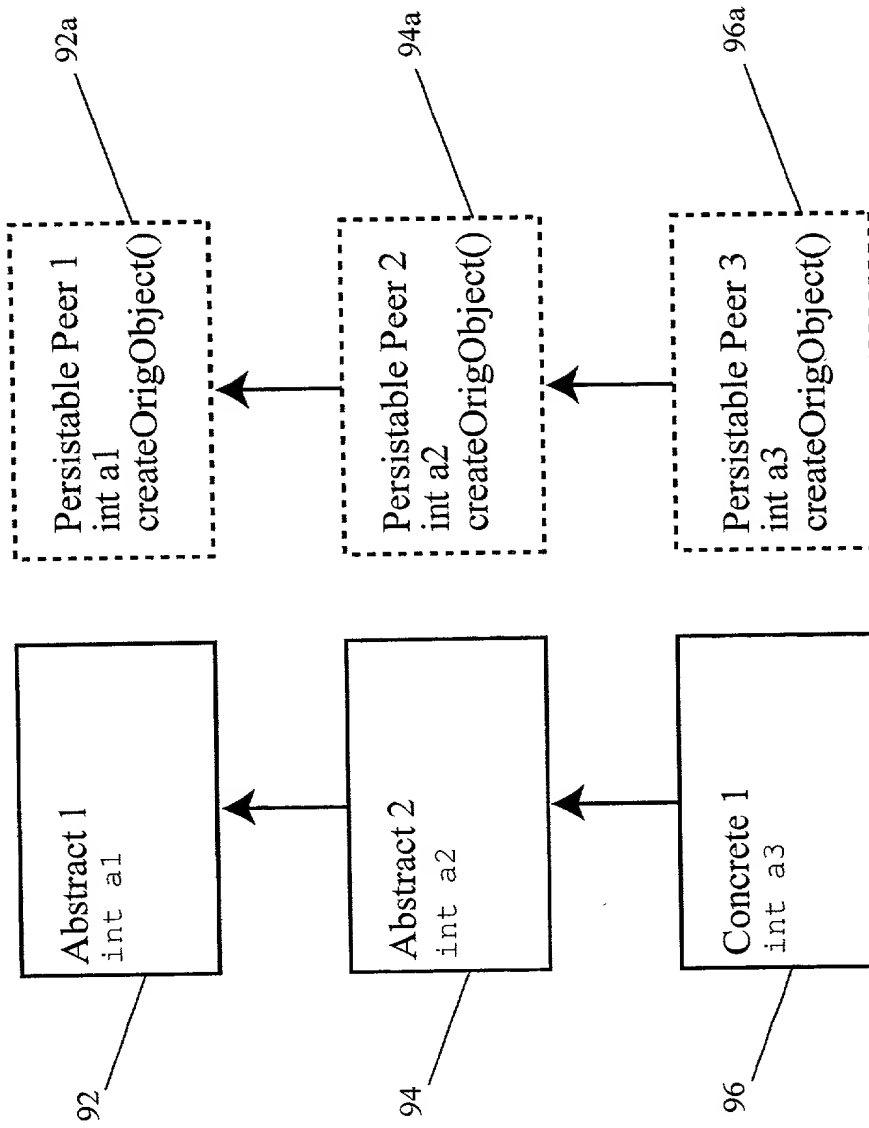


Figure 13

Figure 14a

Figure 14b

Figure 14c

Figure 14d

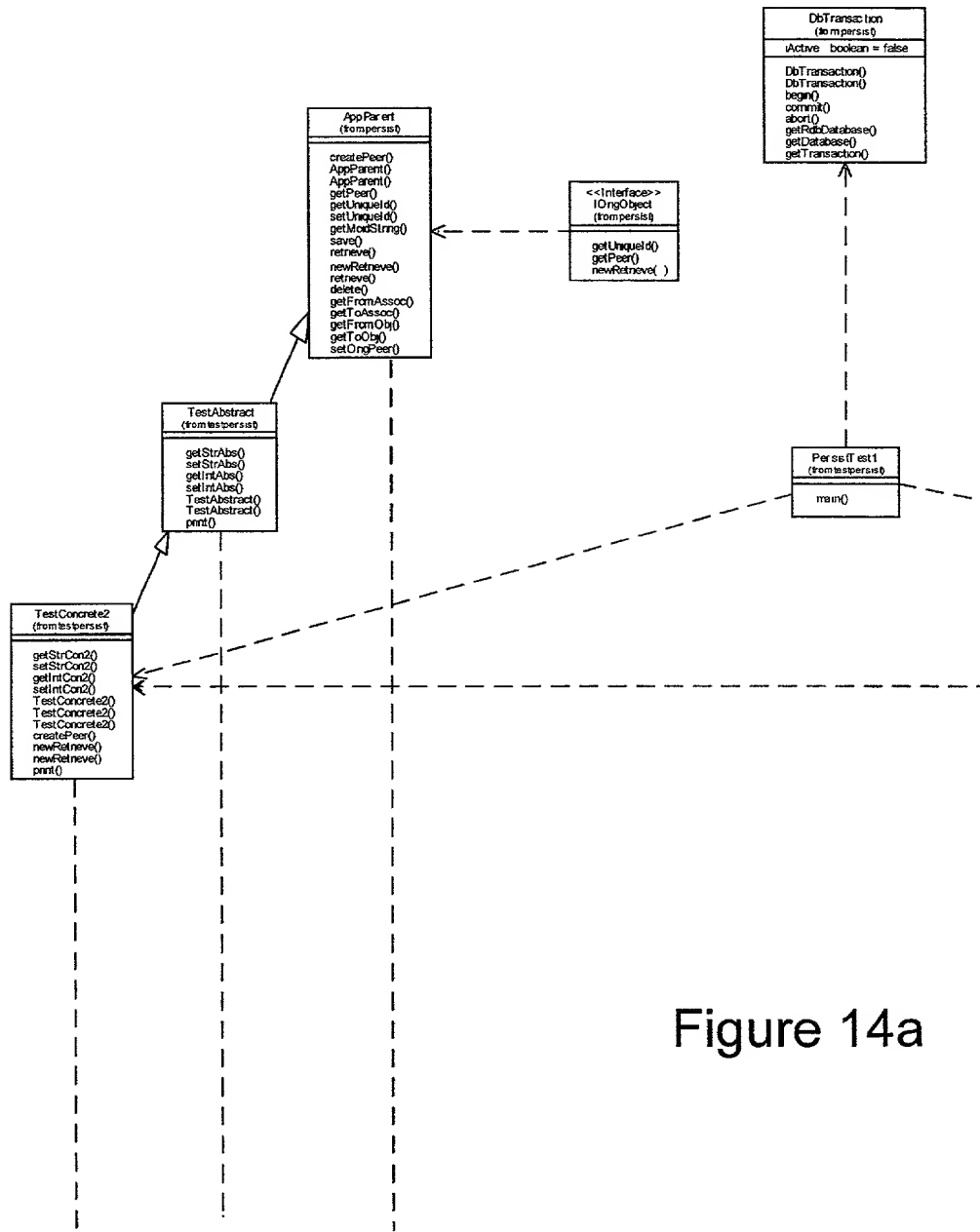
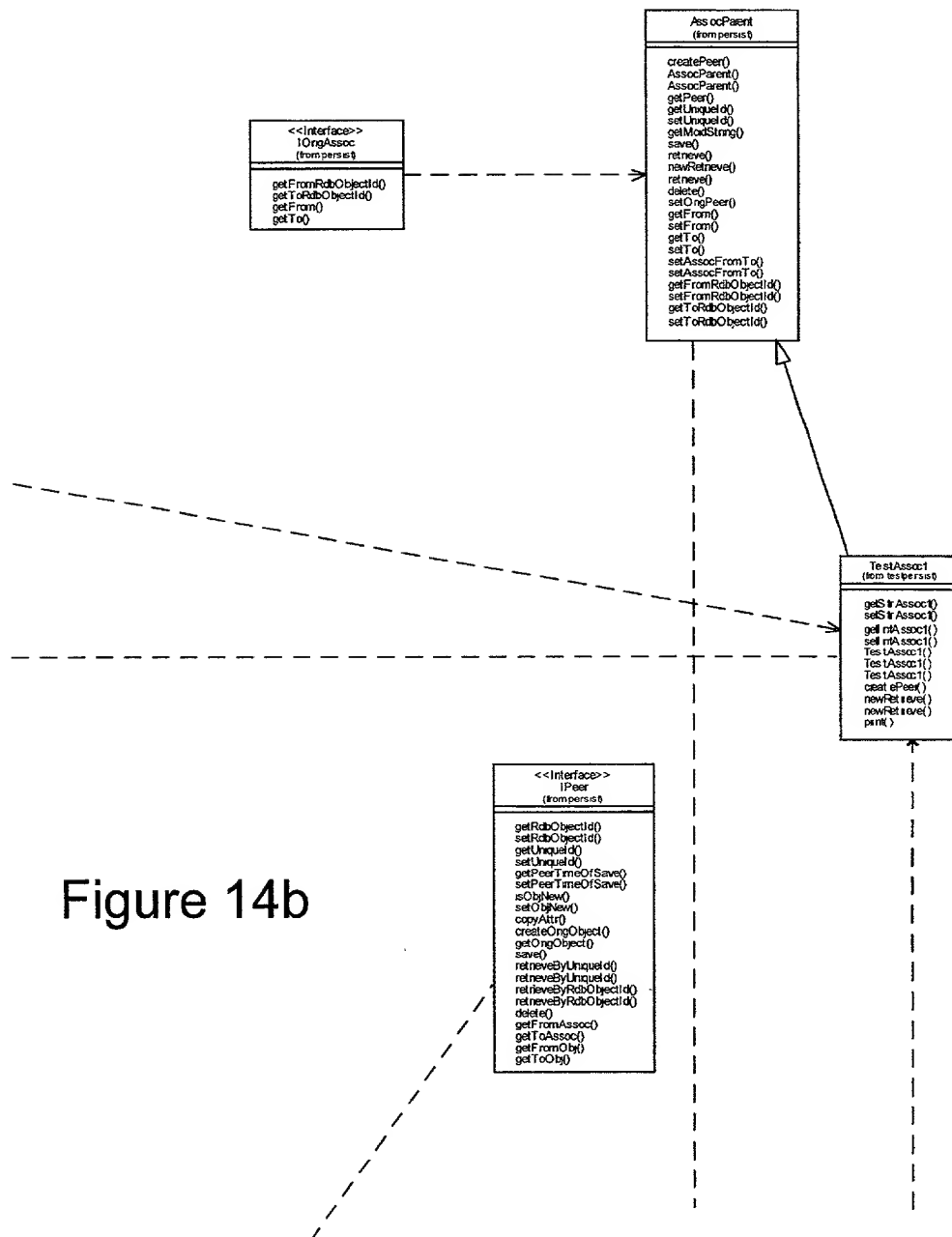


Figure 14a



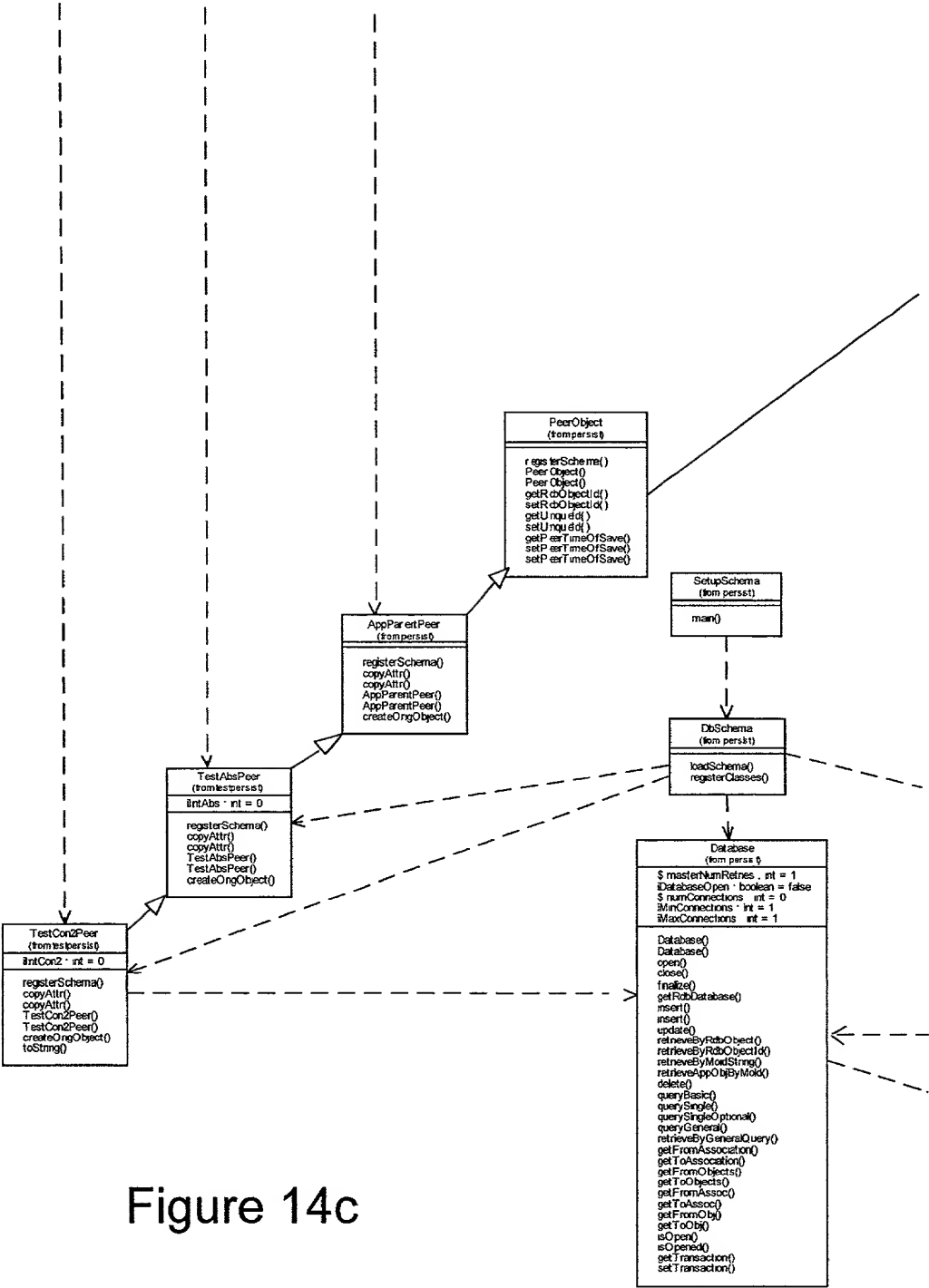


Figure 14c

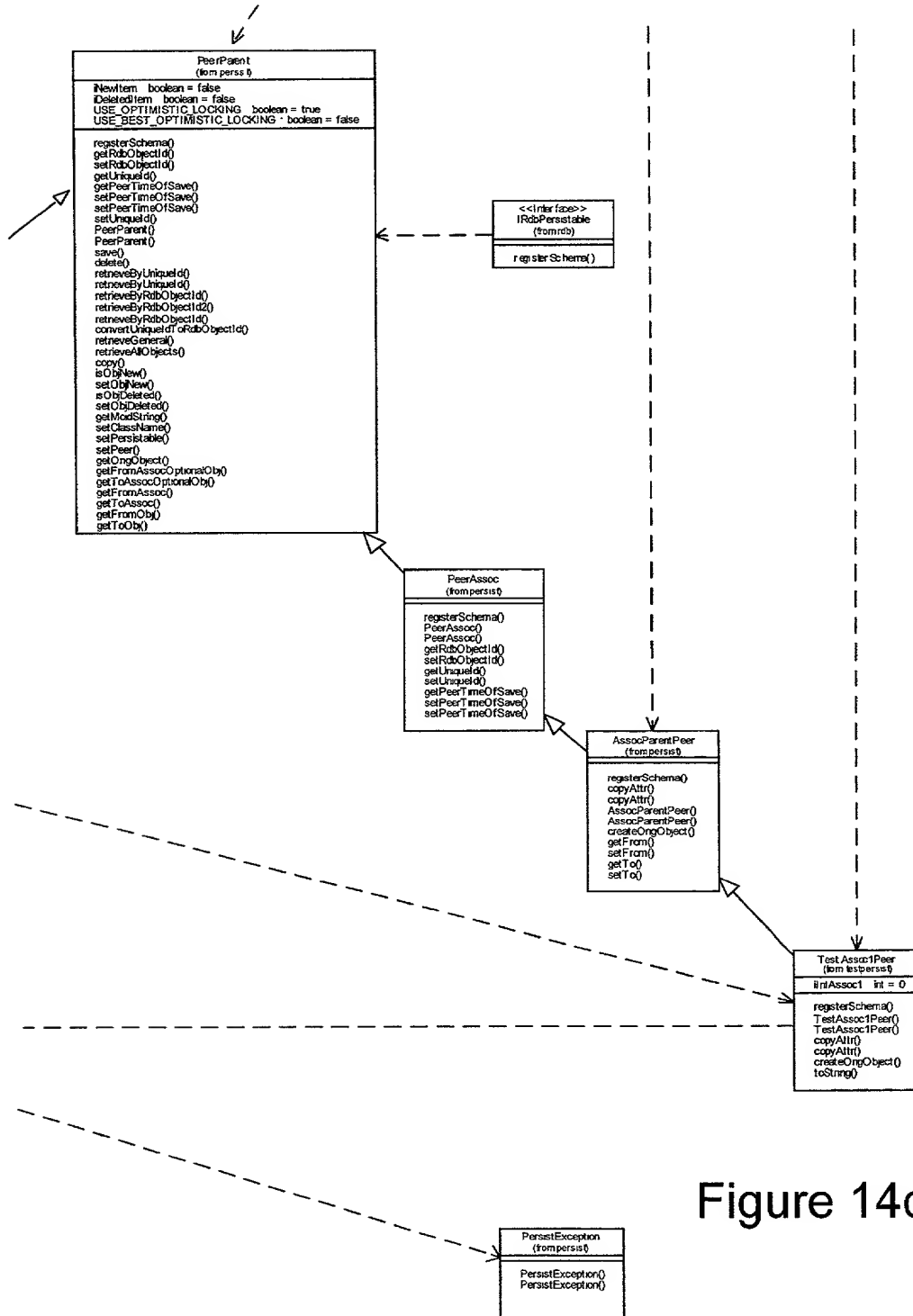
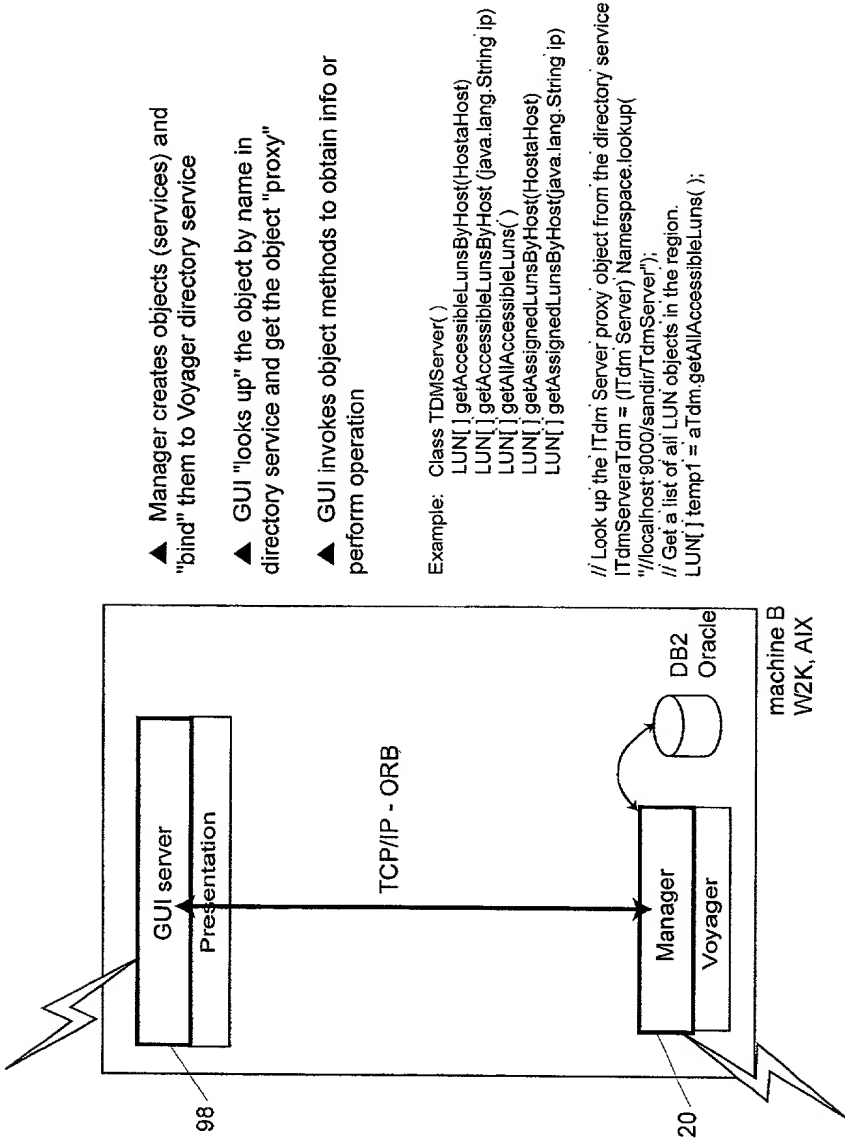


Figure 14d

GUI (server) & Manager communication



- ▲ Manager creates objects (services) and "bind" them to Voyager directory service
- ▲ GUI "looks up" the object by name in directory service and get the object "proxy"
- ▲ GUI invokes object methods to obtain info or perform operation

Example: Class TDMServer()
LUN[] getAccessibleLunsByHost(HostaHost)
LUN[] getAccessibleLunsByHost (java.lang.String ip)
LUN[] getAllAccessibleLuns()
LUN[] getAssignedLunsByHost(HostaHost)
LUN[] getAssignedLunsByHost(java.lang.String ip)

// Look up the 'Tdm' Server proxy object from the directory service
ITdmServerTdm = (ITdm Server) Namespace.lookup(
"//localhost:9000/sandir/TdmServer");
// Get a list of all LUN objects in the region.
LUN[] temp1 = aTdm.getAllAccessibleLuns();

Figure 15

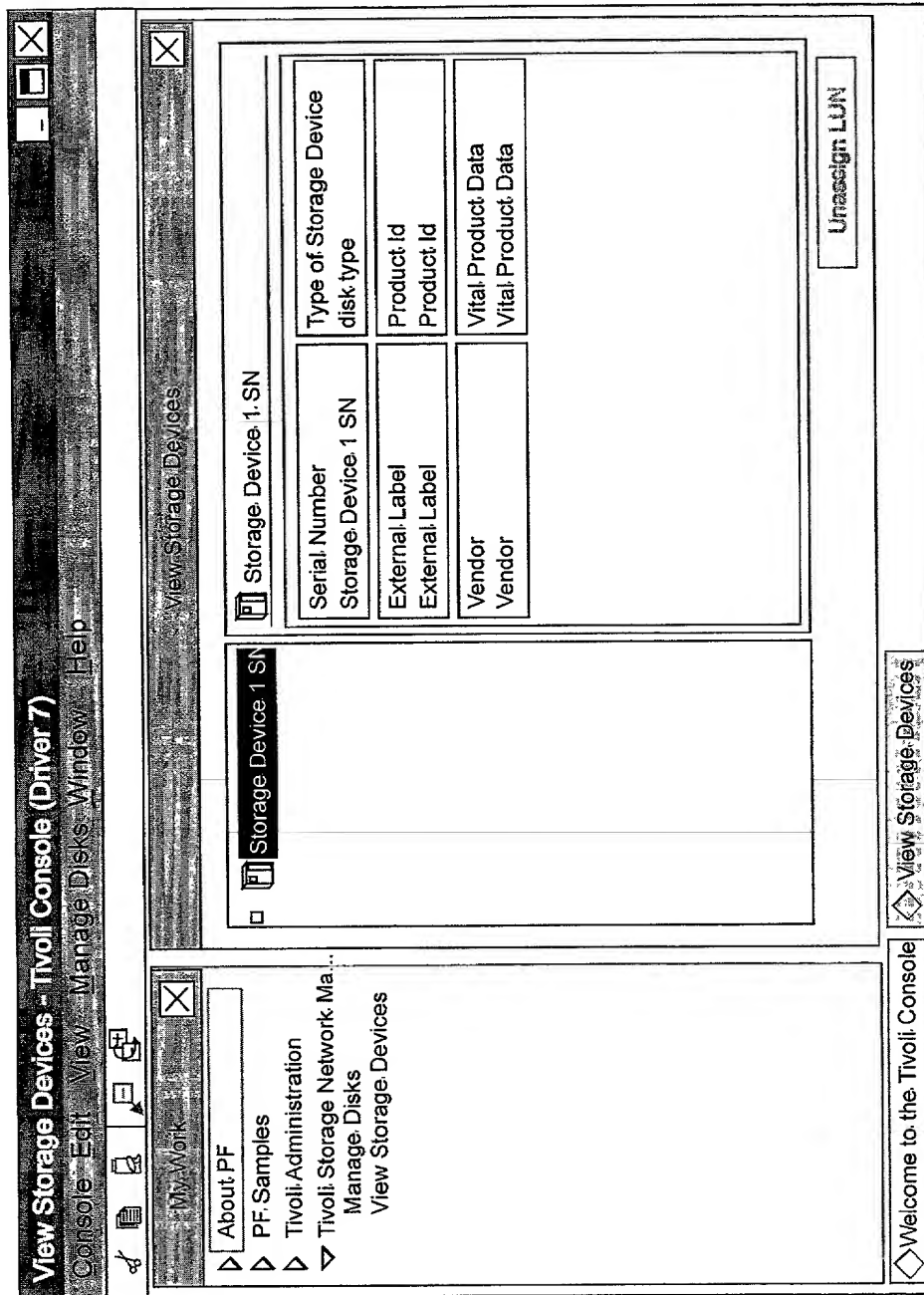


Figure 16

100

102

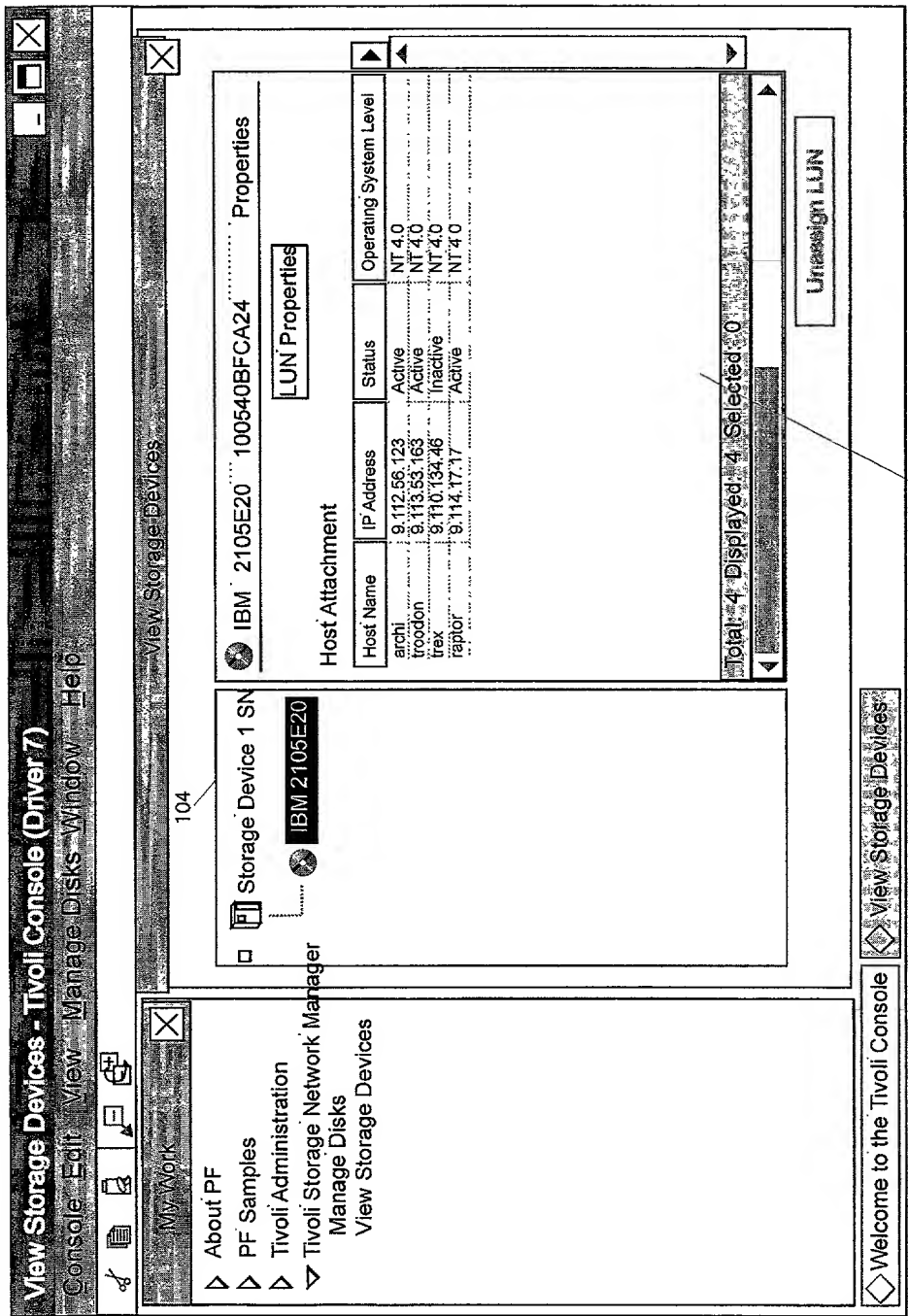
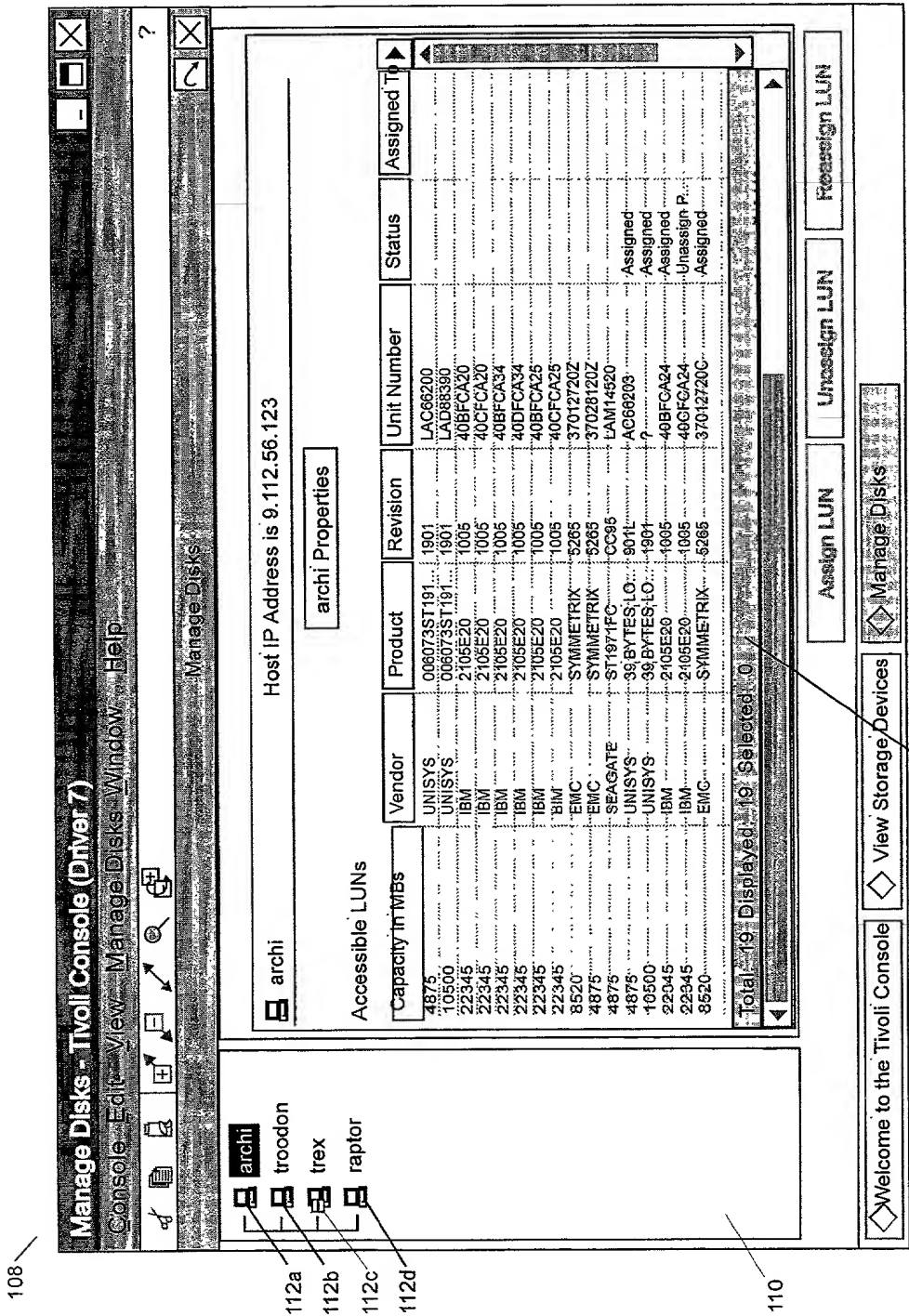


Figure 17

106



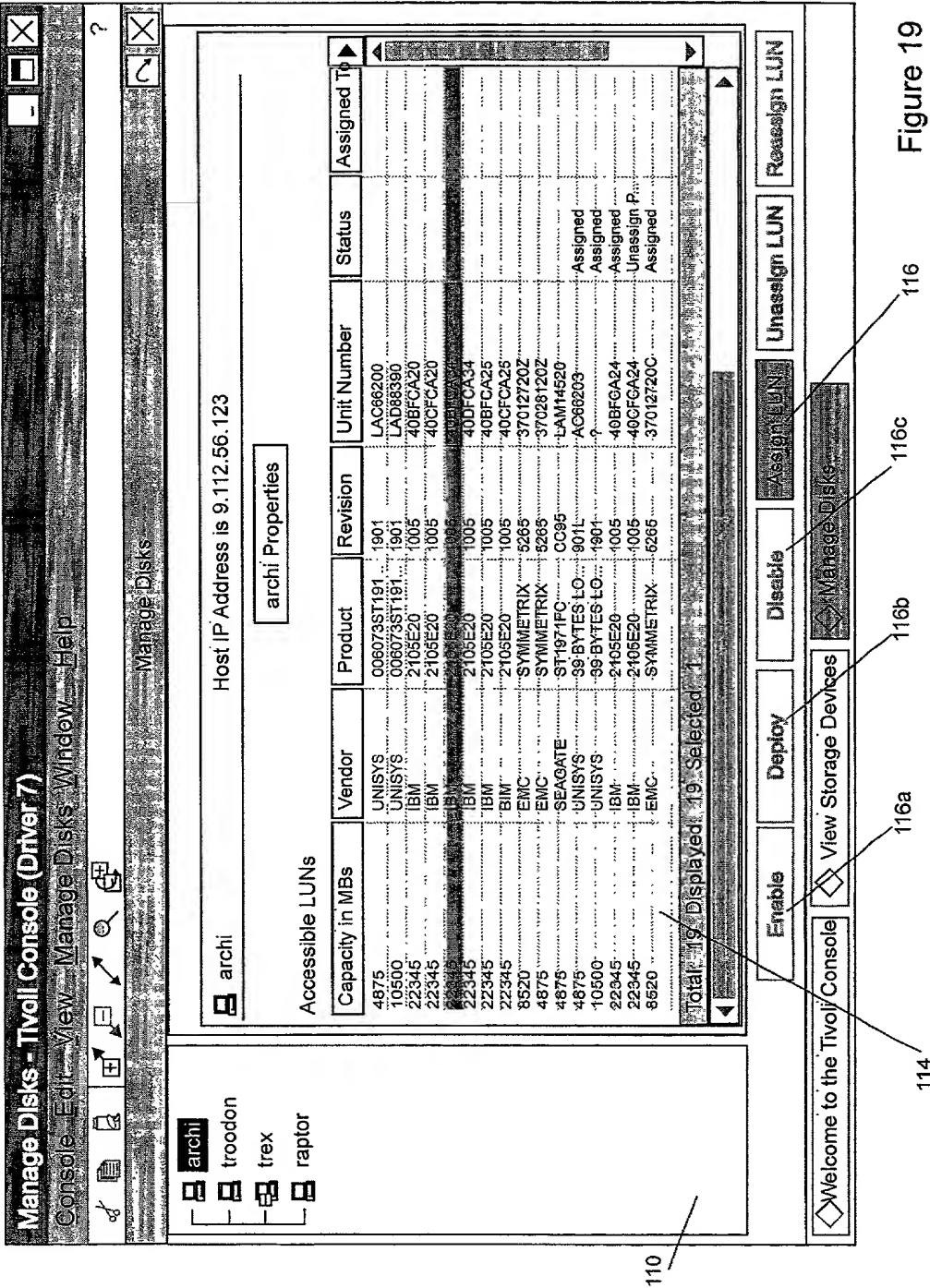


Figure 19

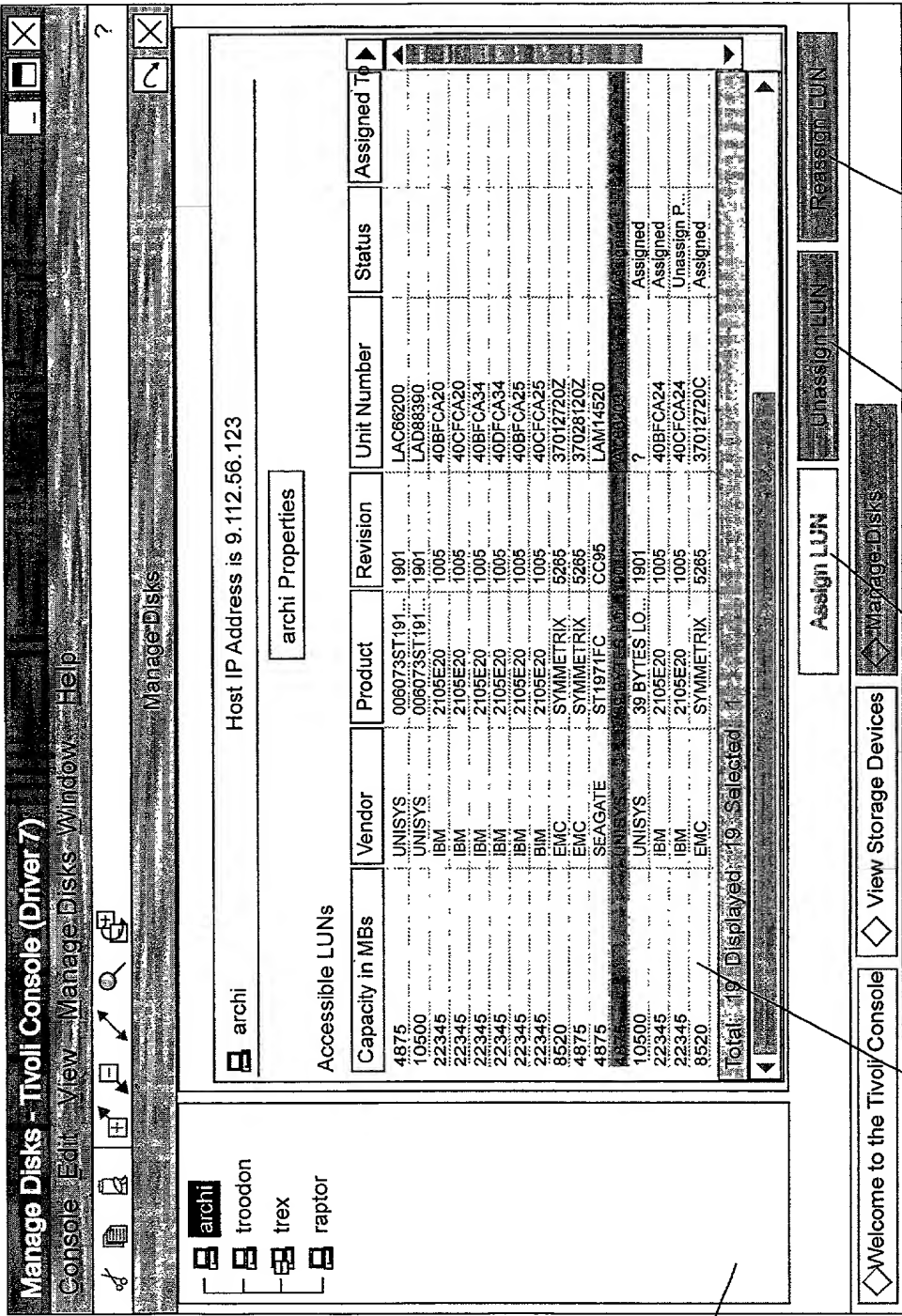


Figure 20

Clearing the Filter

archi

troodon

trex

raptor

vega

Manage Disks - Tivoli Console (Driver 7)

Console Edit View Manage Disks Window Help

Manage LUNs

Host IP Address is 9.112.56.123

Host Properties

Accessible LUNs

Capacity in MBs	Vendor	Product	Revision	Unit Number	Status	Assigned To Other	Logical Unit
22,345	IBM	2105E20	1005	40CFC A24	Unassign Pending	<no filter>	LU group1
10,500	UNISYS	006073ST191	1901	LA088397	Assigned	<no filter>	LU group1
22,345	IBM	2105E20	1005	40BFC A24	Assigned	<no filter>	LU group1
8,520	EMC	SYMMETRIX 5285	37012720C	37012720C	Assigned	<no filter>	LU group1
10,500	UNISYS	006073ST191	1901	LA088390	Assigned	<no filter>	LU group1
22,345	IBM	2105E20	1005	40BFC A20	Assigned	<no filter>	LU group1
22,345	IBM	2105E20	1005	40CFC A20	Assigned	<no filter>	LU group1
22,345	IBM	2105E20	1005	40BFC A34	Assigned	<no filter>	LU group1
22,345	IBM	2105E20	1005	40BFC A25	Assigned	<no filter>	LU group1
22,345	IBM	2105E20	1005	40CFC A25	Assigned	<no filter>	LU group1
8,520	EMC	SYMMETRIX 5285	37012720C	37012720C	Assigned	<no filter>	LU group1

Total: 19, Displayed: 12, Selected: 0

Assign LUN

Unassign LUN

Reassign LUN

Welcome

Manage LUNs

122

Figure 21

Custom Filtering

archi troodon trex raptor vega

Manage Disks - Tivoli Console (Driver 7)
Console Edit View Manage Disks Window Help

Host IP Address is 9.112.56.123

Host Properties

Accessible LUNs

Capacity in MBs

5000

At least At most

OK

Unit Number	Status	Assigned To Other	Logical Unit
40CFCA24	Unassign Pending	<no filter>	<no filter>
LAC68203	Assigned	<no filter>	LU group1
LAD68397	Assigned	<no filter>	LU group1
40BFCA24	Assigned	<no filter>	LU group1
37012720C	Assigned	<no filter>	LU group1
37028120C	Assigned	<no filter>	LU group1
37028120C	Assigned	<no filter>	LU group1
LAM14626	Assigned	<no filter>	LU group1
LAC68200		<no filter>	LU group1
LAD68390		<no filter>	LU group1
40BFCA20		<no filter>	LU group1
40CFCA20		<no filter>	LU group1
40BFCA34		<no filter>	LU group1
40DFCA34		<no filter>	LU group1
37012720Z		<no filter>	LU group1

Total: 19 Displayed: 19 Selected: 0

Welcome

Manage LUNs

Assign LUN Unassign LUN Reassign LUN

Figure 22

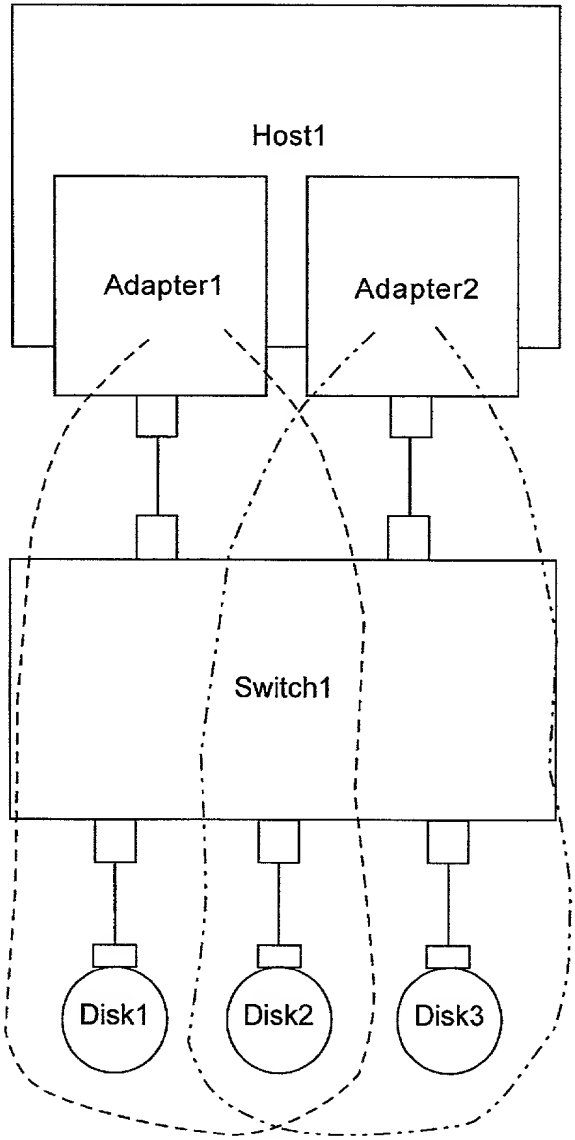


Figure 23

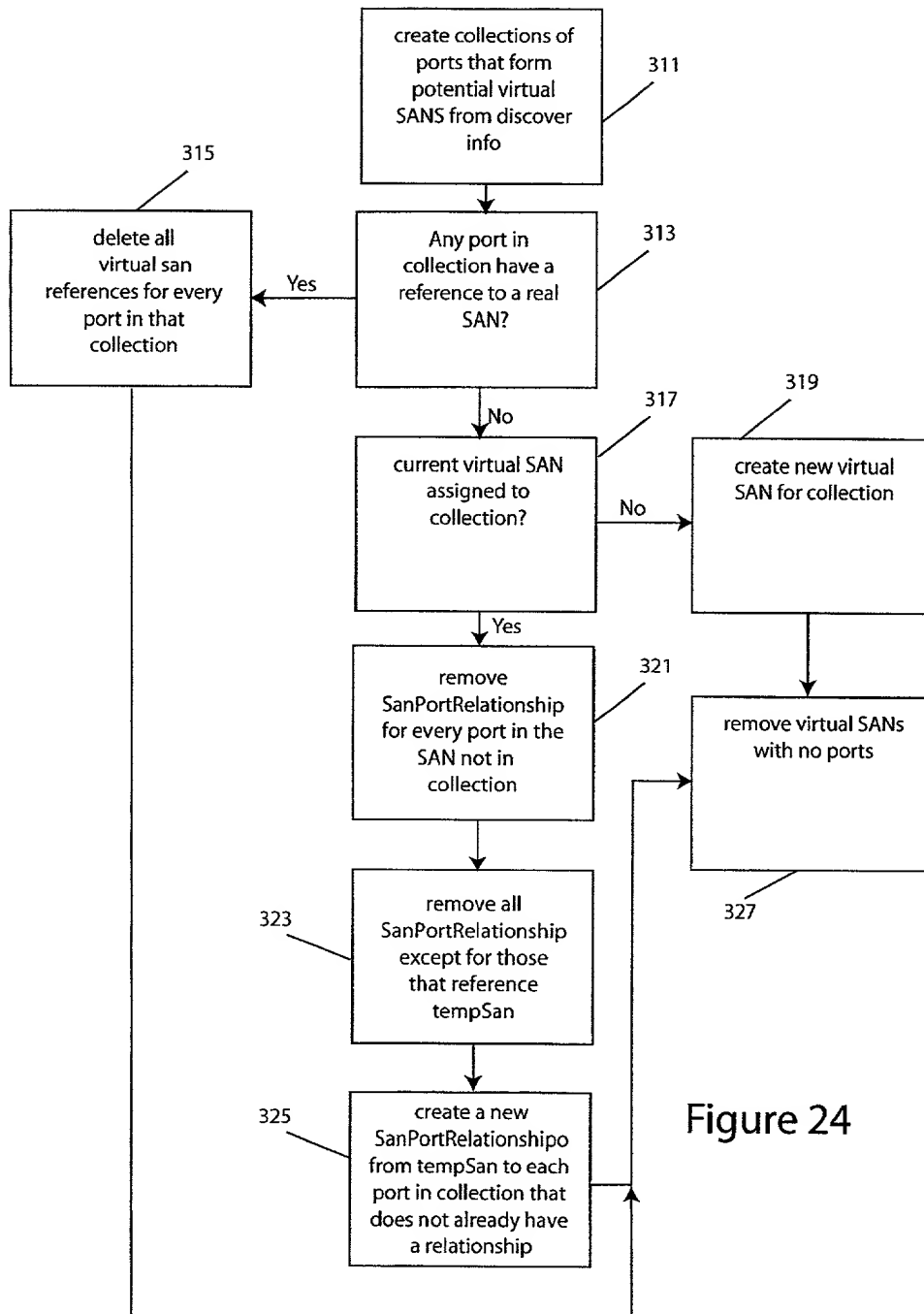


Figure 24

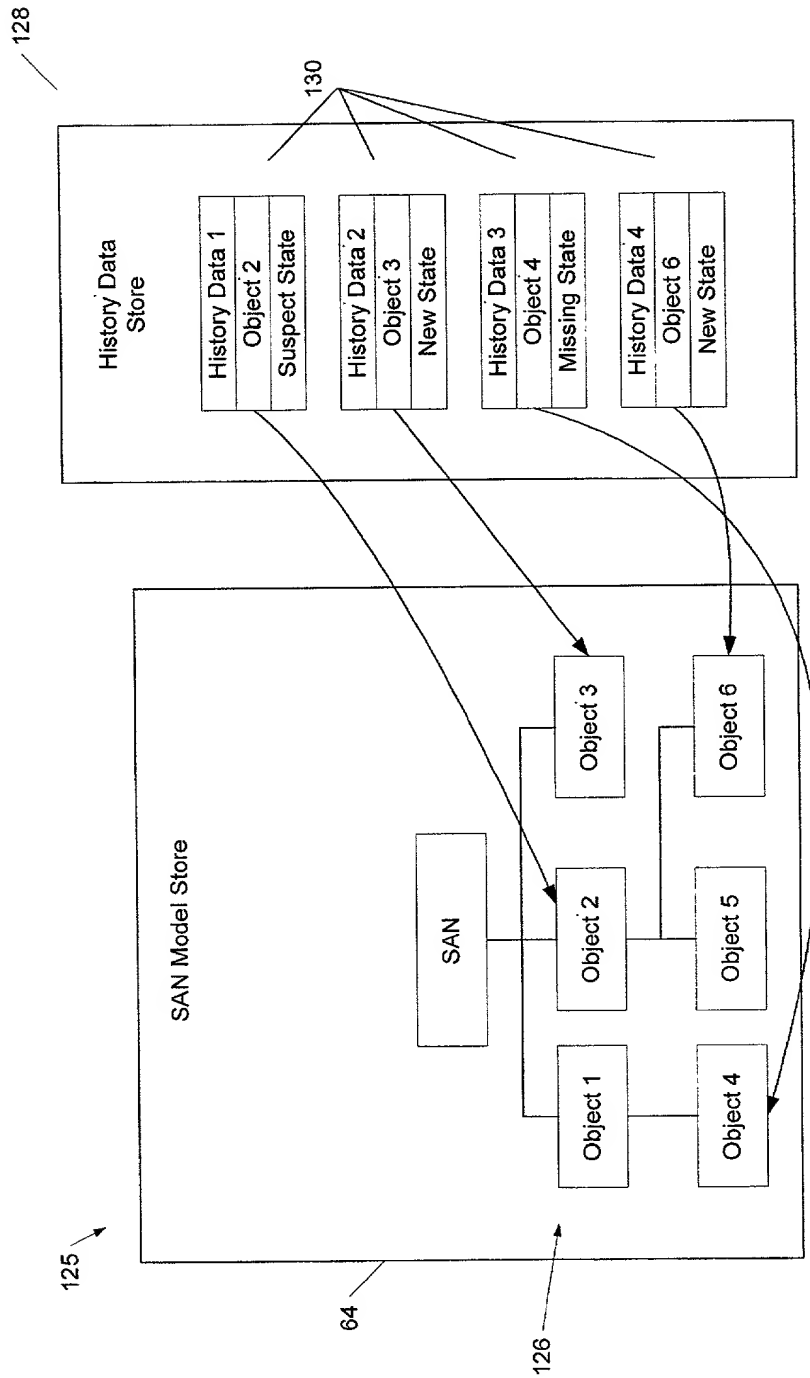


FIGURE 25

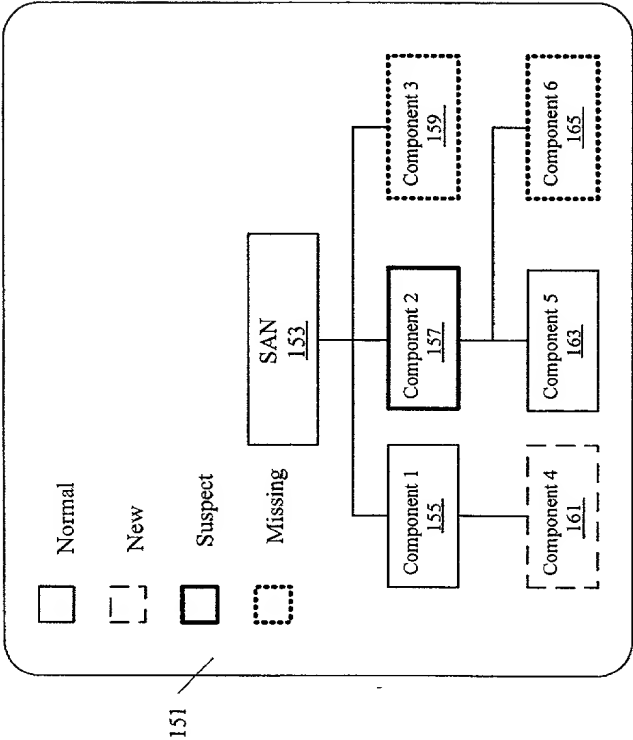


FIGURE 26

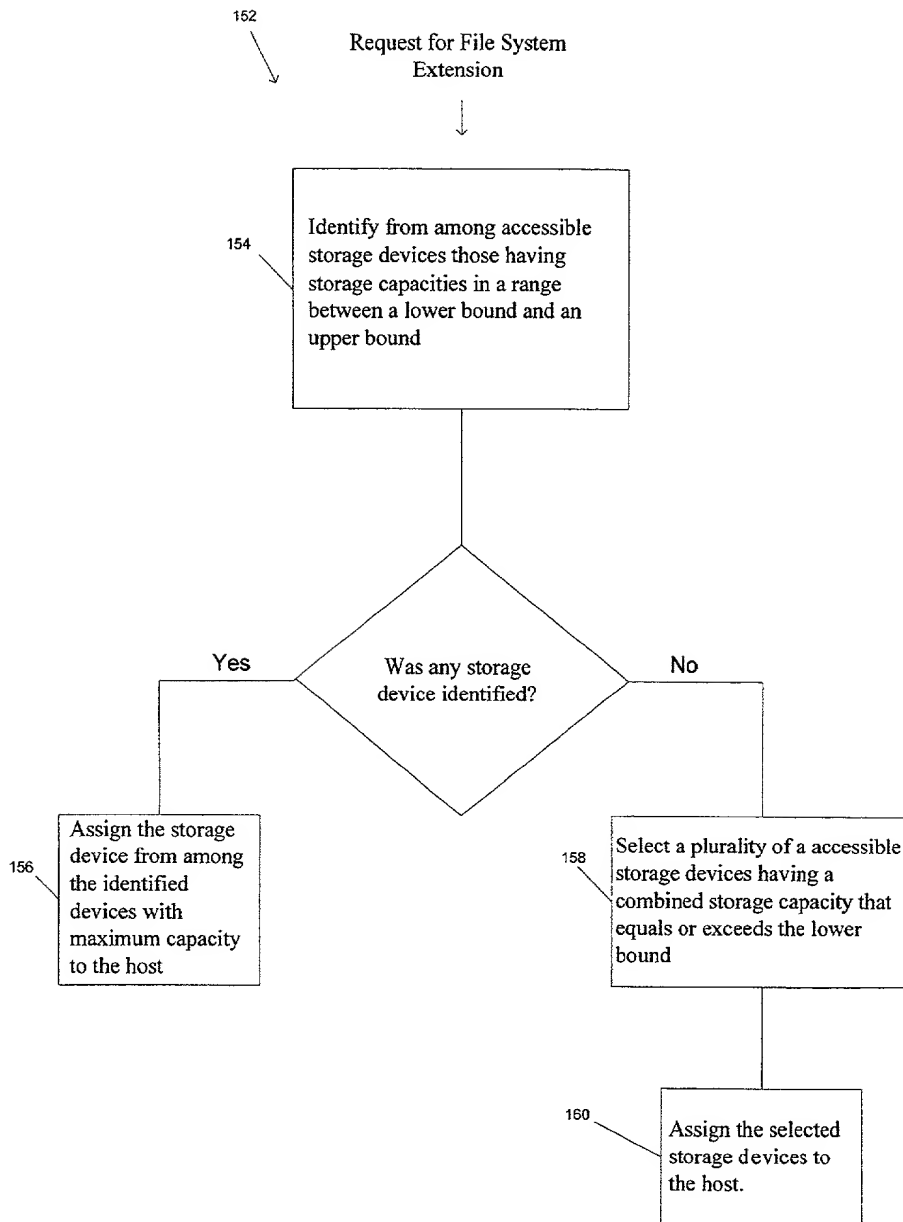


Figure 27

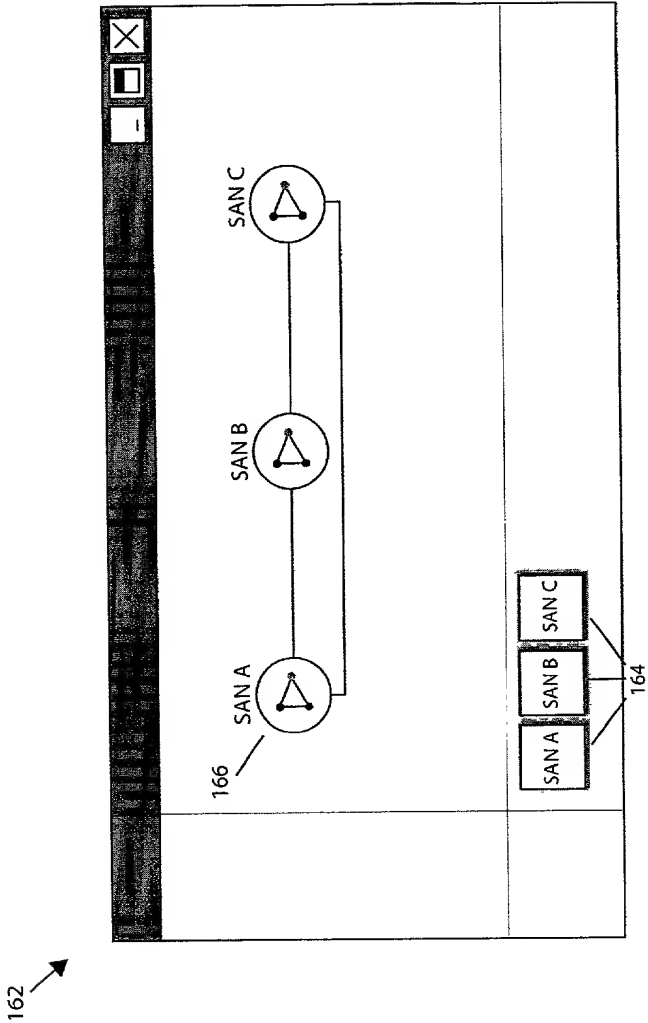


Figure 28

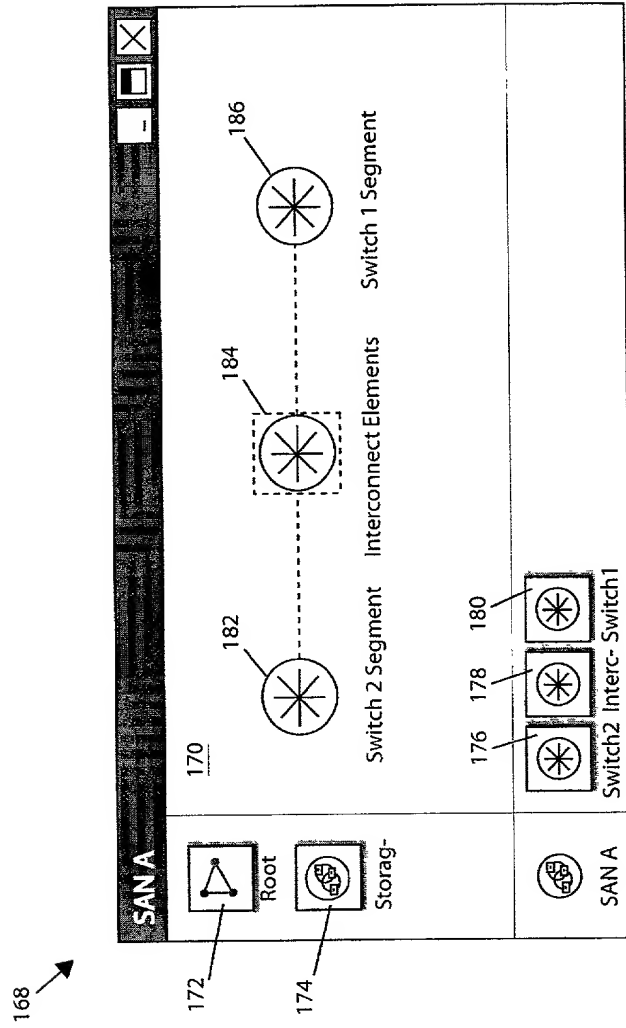


Figure 29

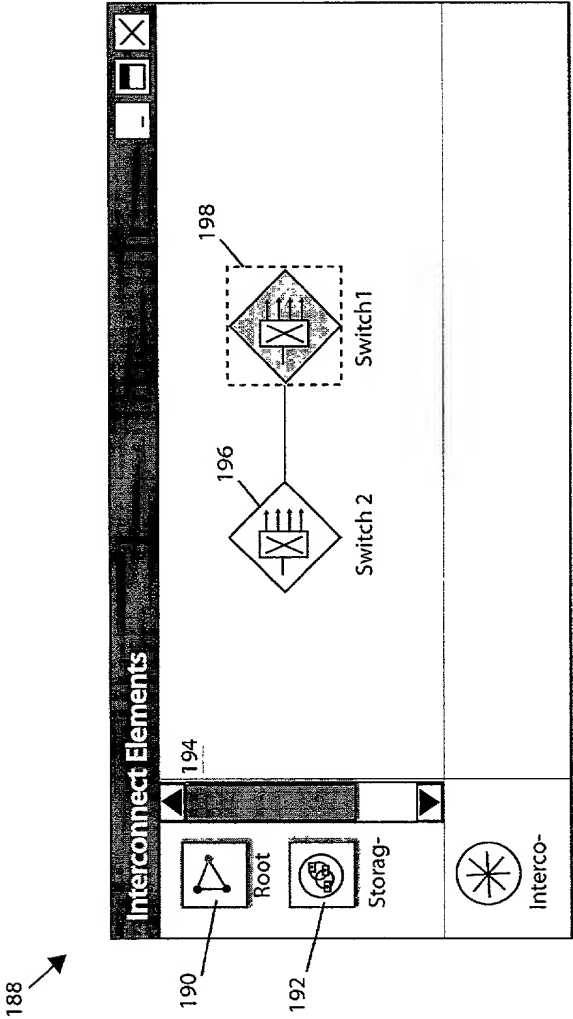


Figure 30

IBM DOCKET NO. SJ09-2001-0097

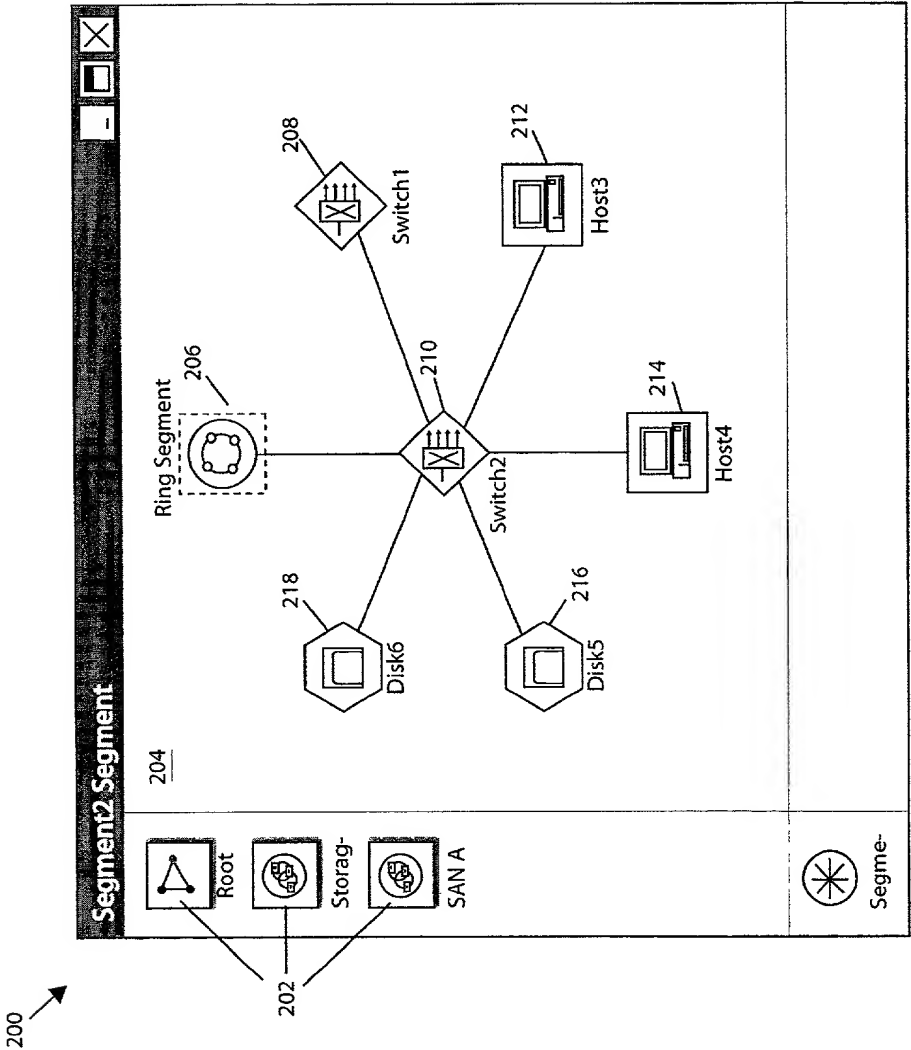


Figure 31

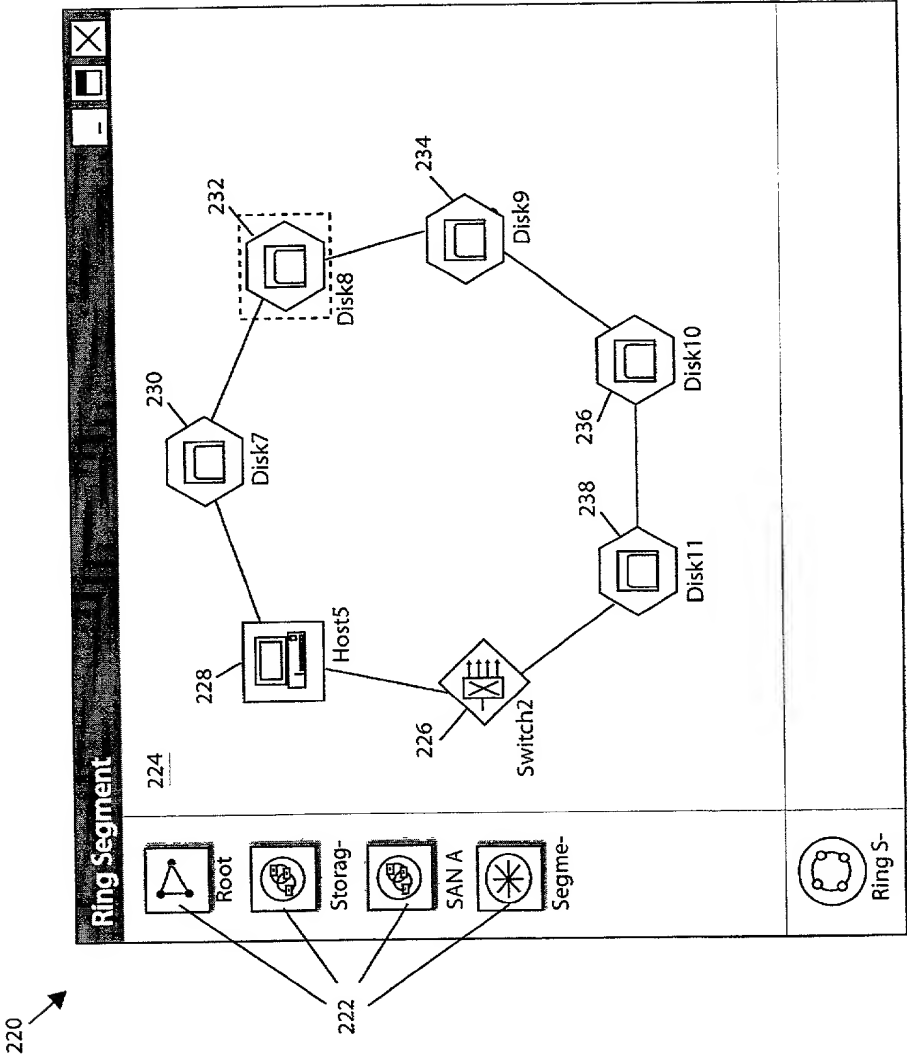
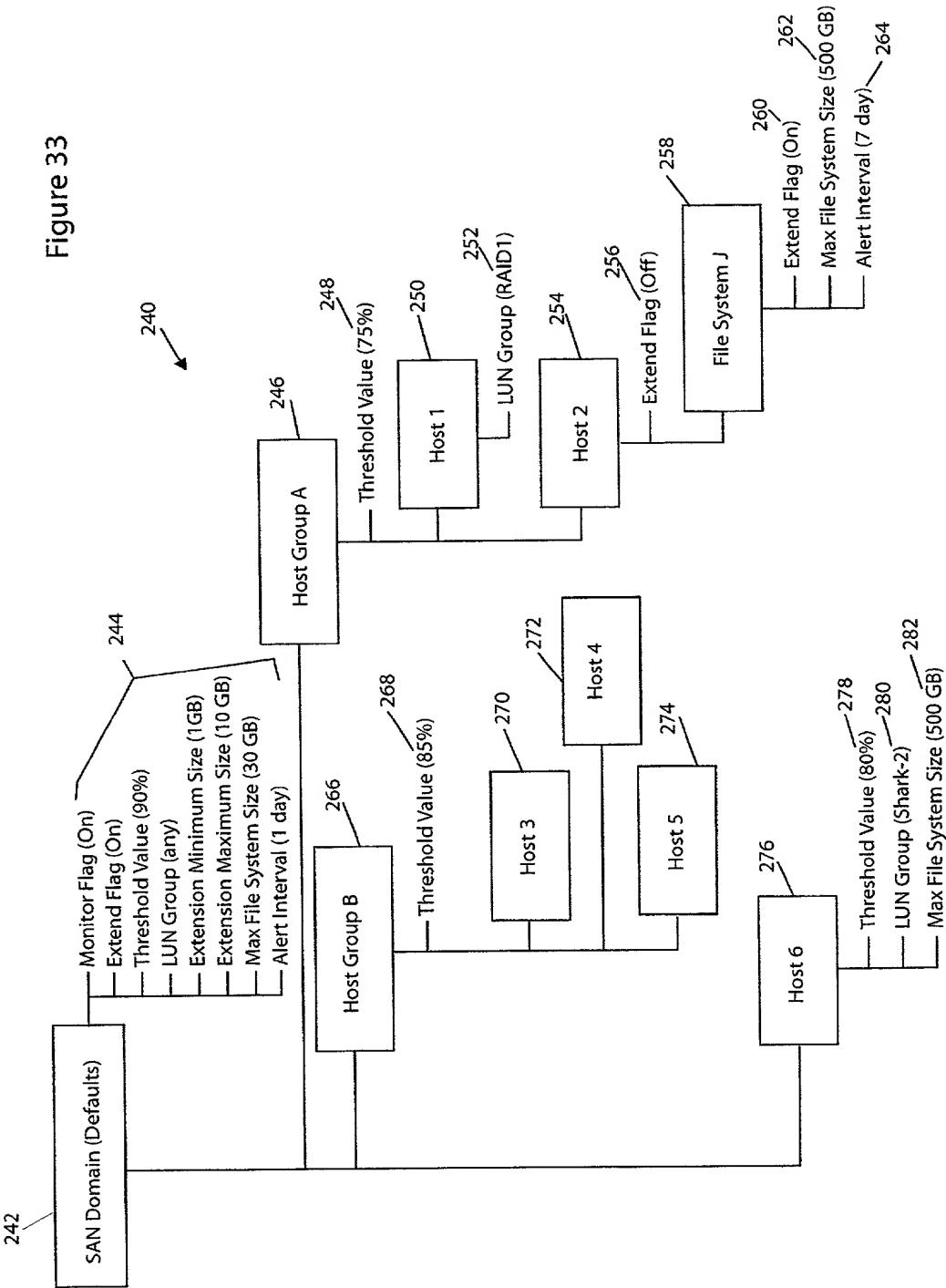


Figure 32



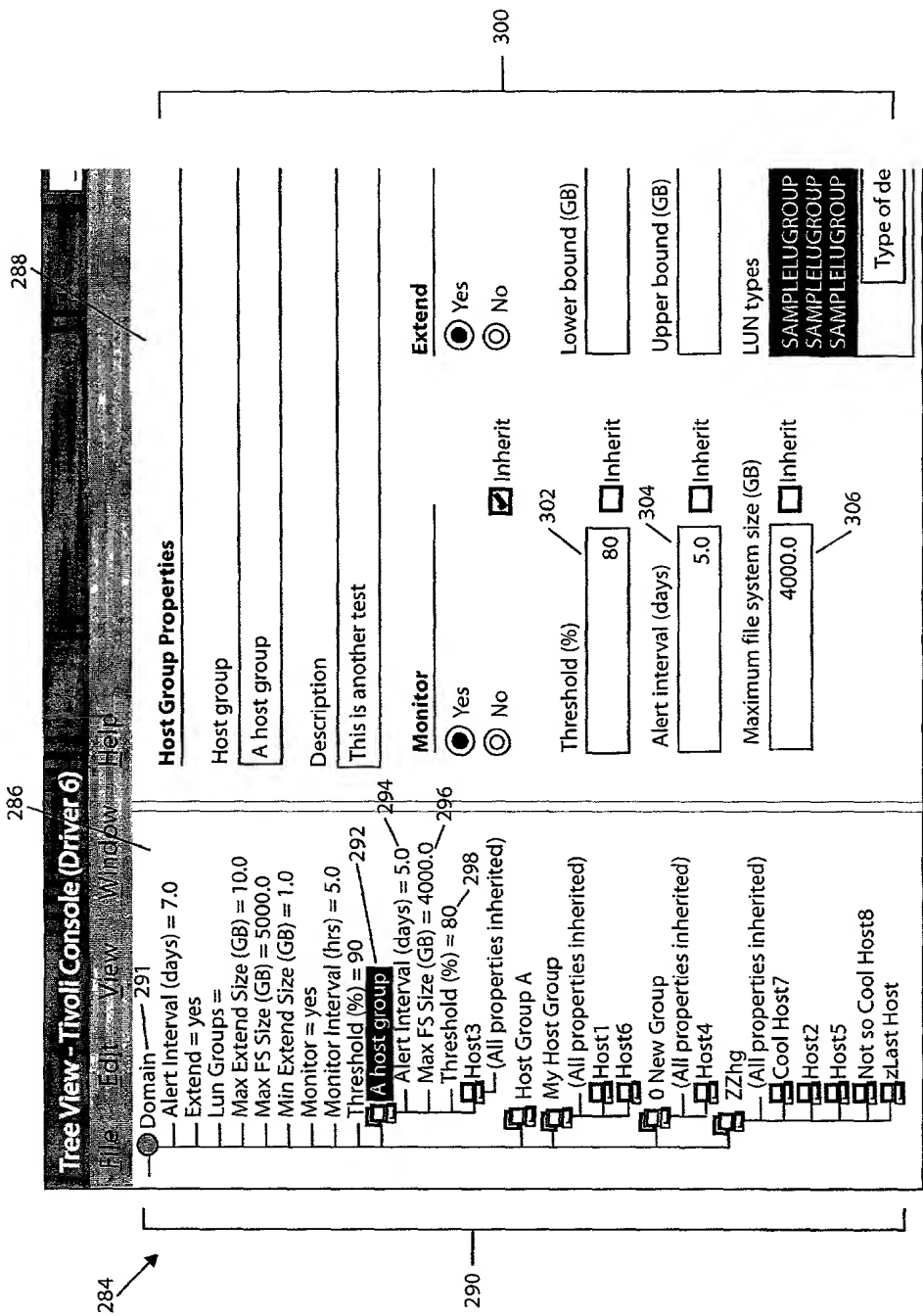
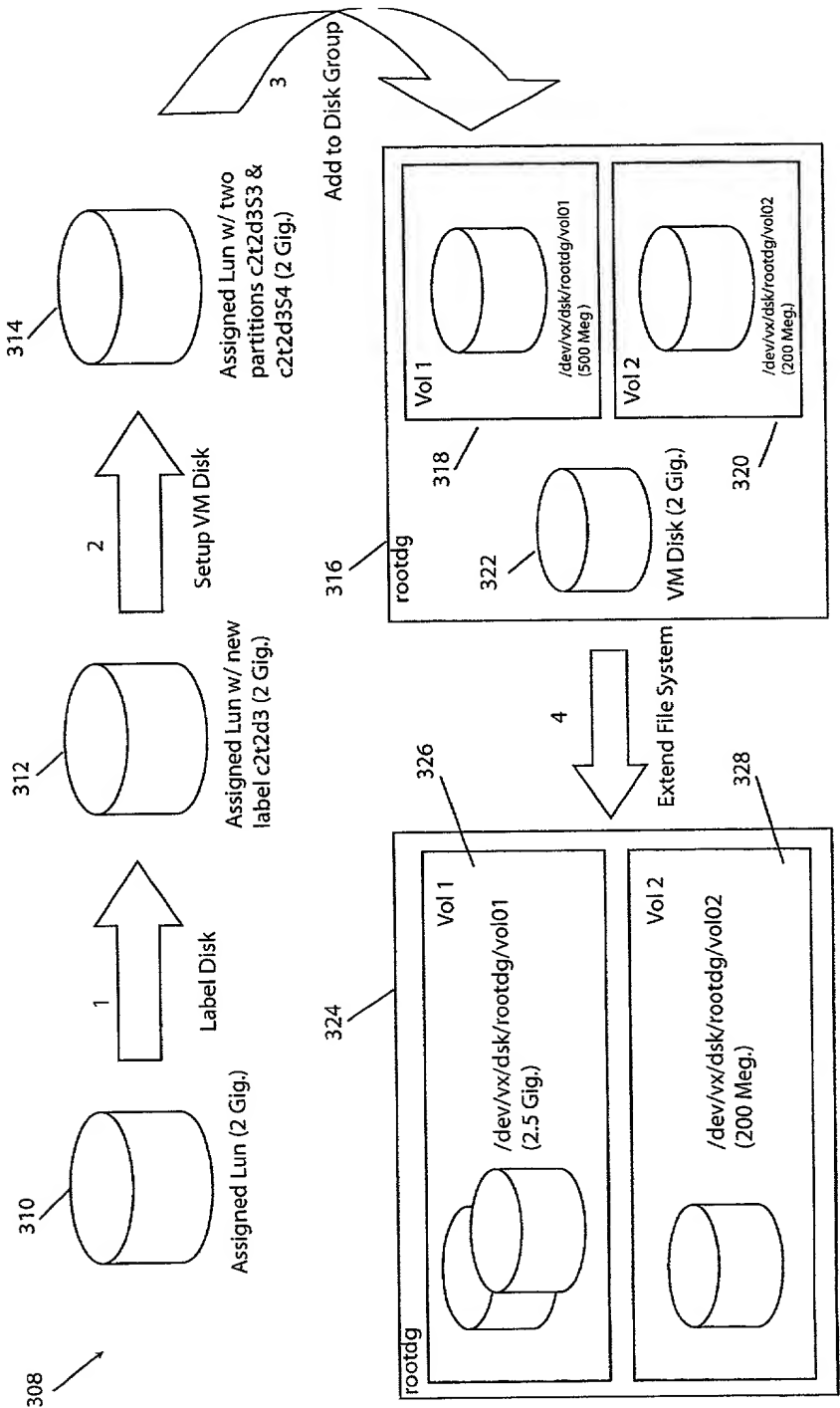


Figure 34

Figure 35



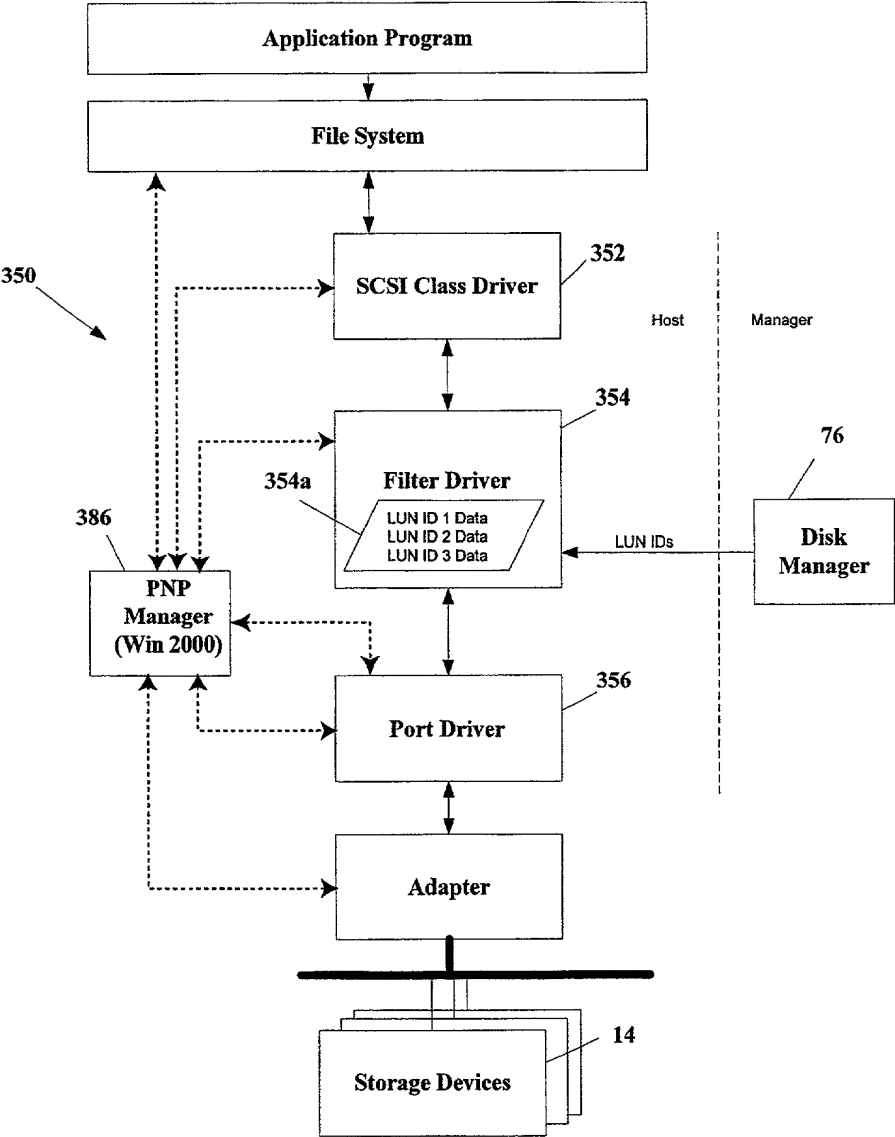
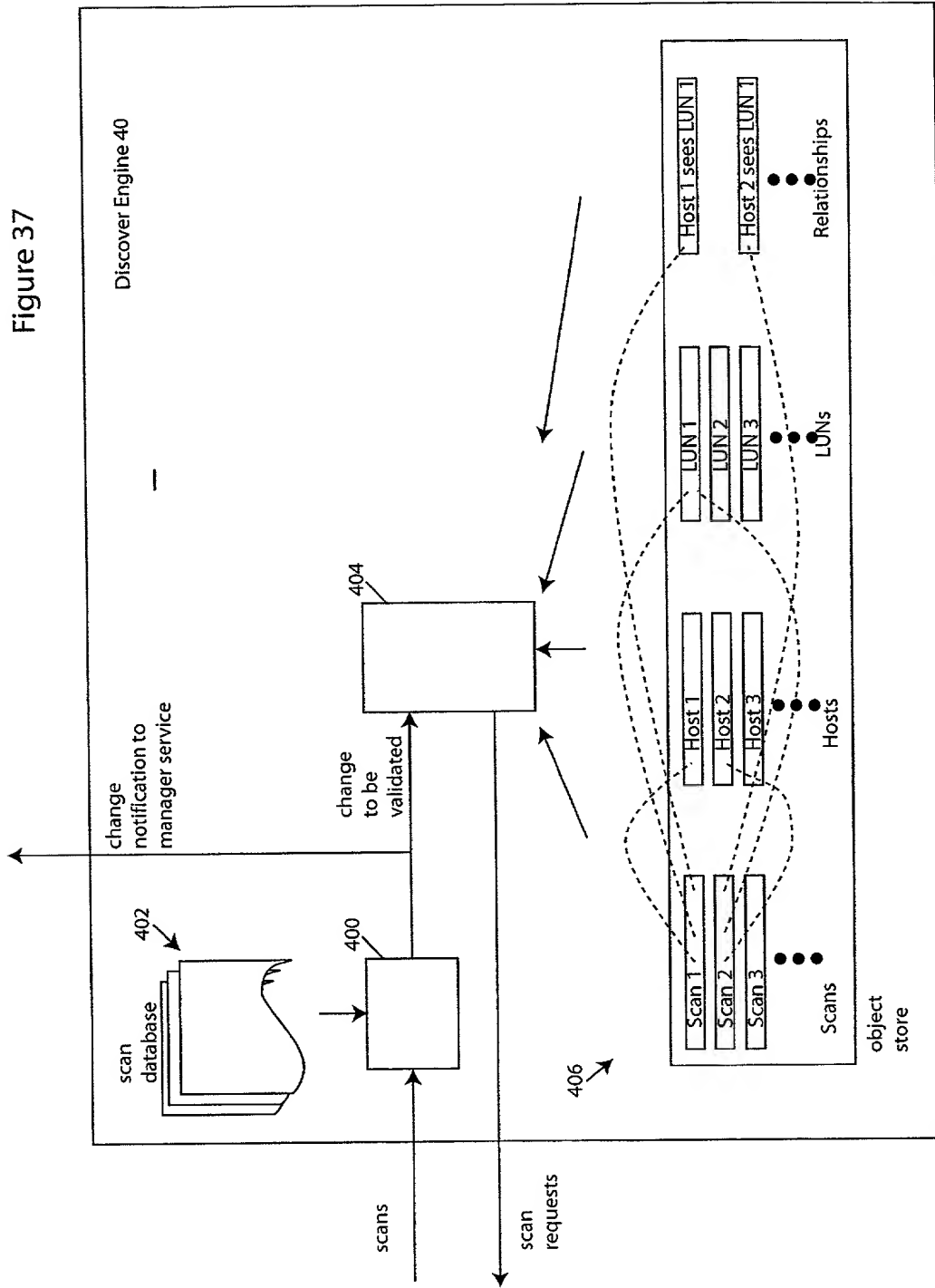


FIGURE 36

Figure 37



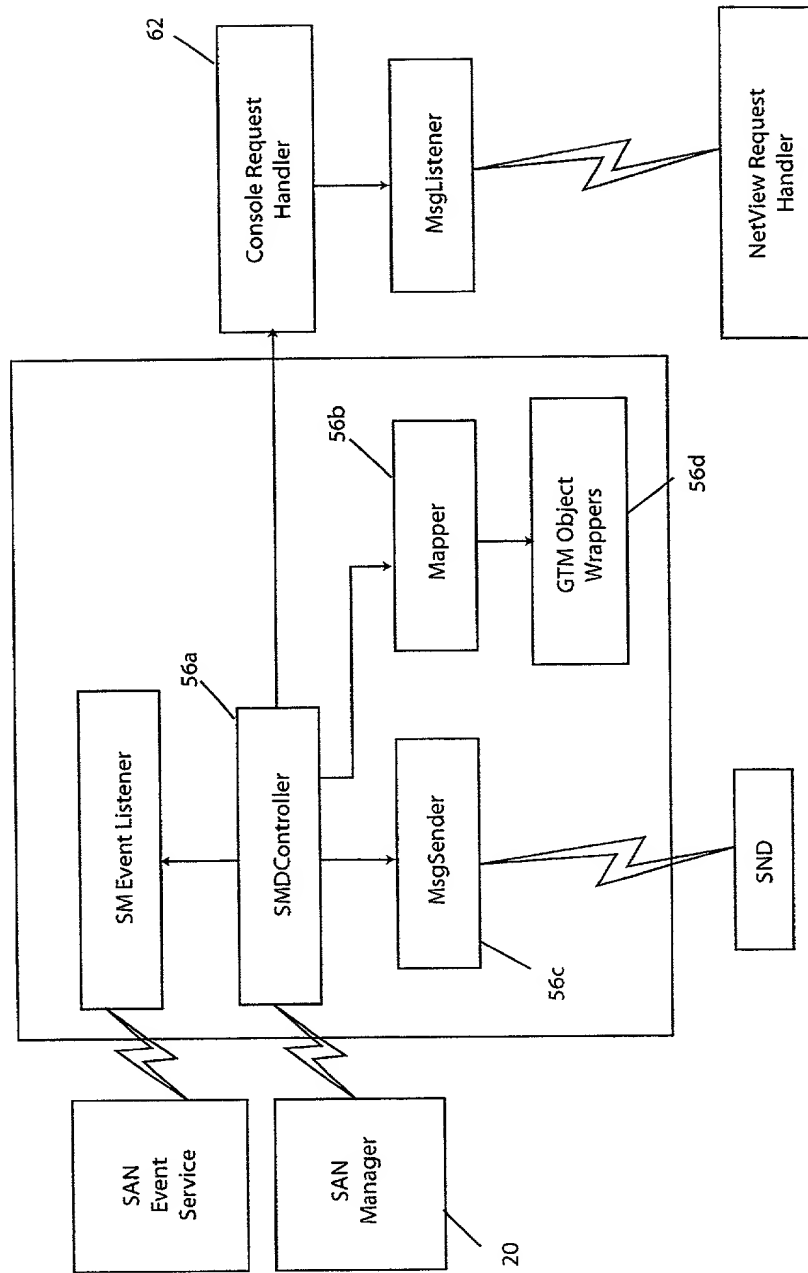


Figure 38

IBM DOCKET NO. SJ09-2001-0097

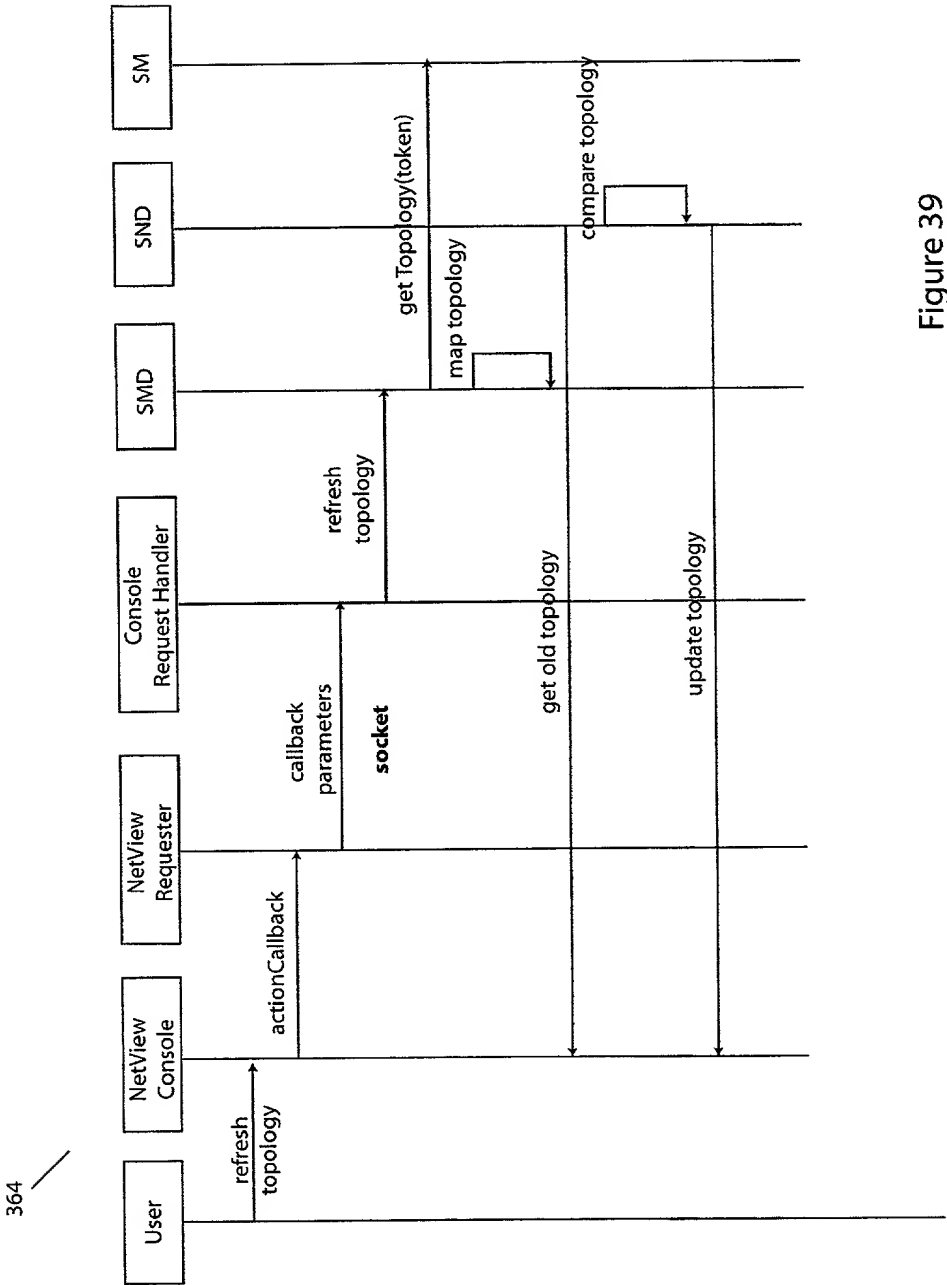


Figure 39

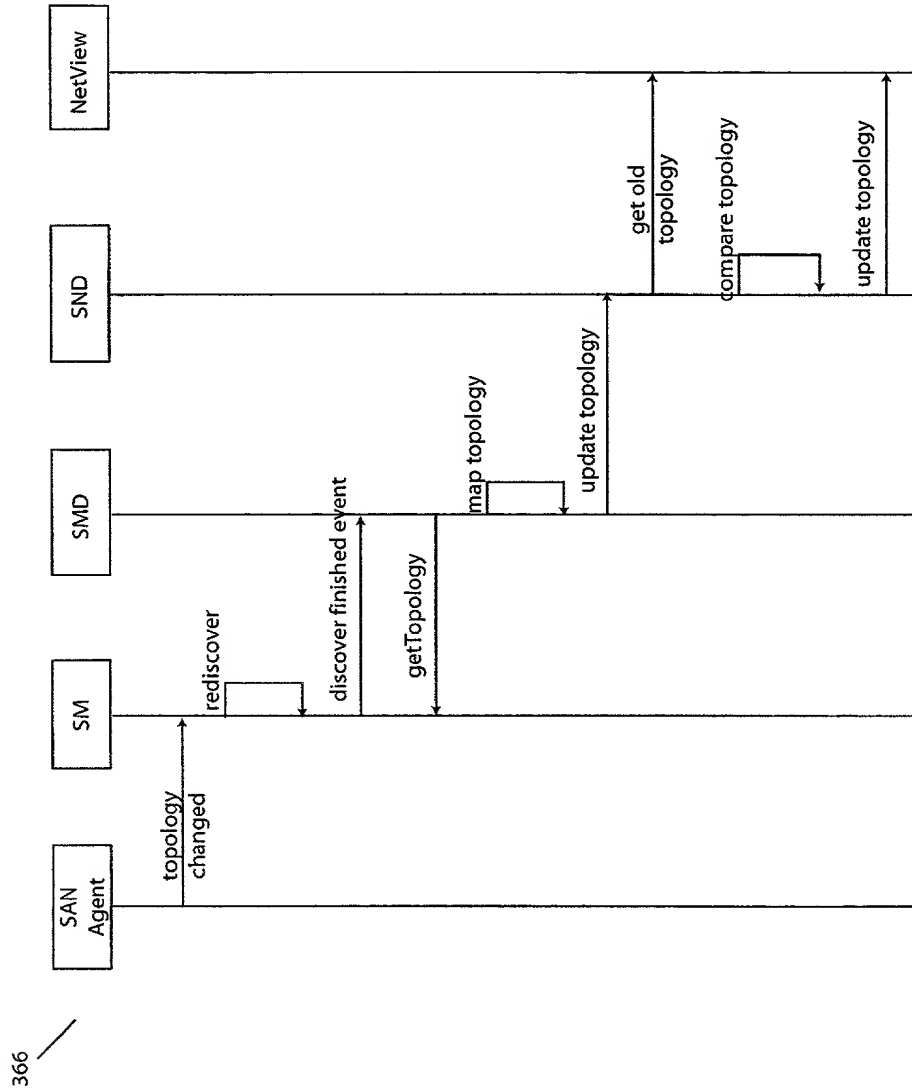


Figure 40